

**KENDRIYA VIDYALAYA, GARDEN REACH, KOLKATA-43**  
**CLASS-XII ( LIST OF PRACTICALS - COMPUTER SCIENCE ) [ 2017-18 ]**

S. No.	List of Programs	Expected date of completion																
<b>CLASSES AND OBJECTS</b>																		
<b>1</b>	Define a class DanceAcademy in C++ with following description: Private Members <ul style="list-style-type: none"> <li>● Enrollno of type int</li> <li>● Name of type string</li> <li>● Style of type string</li> <li>● Fee of type float</li> <li>● A member function chkfee( ) to assign the value of fee variable according to the style entered by the user according to the criteria as given below:</li> </ul> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Style</td> <td style="text-align: right;">Fee</td> </tr> <tr> <td>Classical</td> <td style="text-align: right;">10000</td> </tr> <tr> <td>Western</td> <td style="text-align: right;">8000</td> </tr> <tr> <td>Freestyle</td> <td style="text-align: right;">11000</td> </tr> </table> Public Members <ul style="list-style-type: none"> <li>● A function enrollment() to allow users to enter values for Enrollno, Name, Style and call function chkfee() to assign value of fee variable according to the Style entered by the user.</li> <li>● A function display() to allow users to view the details of all the data members.</li> </ul>	Style	Fee	Classical	10000	Western	8000	Freestyle	11000	05/04/2017								
Style	Fee																	
Classical	10000																	
Western	8000																	
Freestyle	11000																	
<b>2</b>	Define a class HOTEL in C++ with the following description : private members : <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Rno</td> <td>Room No of int type</td> </tr> <tr> <td>Name</td> <td>Customer name of char type</td> </tr> <tr> <td>Tarrif</td> <td>stores per day charges of float type</td> </tr> <tr> <td>NOD</td> <td>no of days integer</td> </tr> </table> CALC() NOD*Tarrif is <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"></td> <td style="text-align: right;">A function to calculate and return Amount as NOD*Tarrif and if the value of</td> </tr> <tr> <td></td> <td style="text-align: right;">more than 10000 then as 1.05*NOD*Tarrif</td> </tr> </table> Public Members: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Checkin</td> <td>// A function to enter the Rno, Name , Tarrif and NOD</td> </tr> <tr> <td>Checkout</td> <td>// A function to display Rno, Name, Tarrif, NOD and Amount by calling CALC()</td> </tr> </table>	Rno	Room No of int type	Name	Customer name of char type	Tarrif	stores per day charges of float type	NOD	no of days integer		A function to calculate and return Amount as NOD*Tarrif and if the value of		more than 10000 then as 1.05*NOD*Tarrif	Checkin	// A function to enter the Rno, Name , Tarrif and NOD	Checkout	// A function to display Rno, Name, Tarrif, NOD and Amount by calling CALC()	10/04/2017
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<b>DATA FILES - TEXT FILES</b>		
<b>3</b>	<p>Write a user defined function <code>word_count()</code> in C++ to count how many words are present in a text file named "opinion.txt".</p> <p>For example, if the file <code>opinion.txt</code> contains following text:            Co-education system is necessary for a balanced society. With co-education system, Girls and Boys may develop a feeling of mutual respect towards each other.</p> <p>The function should display the following:            Total number of words present in the text file are: 24</p>	15/04/2017
<b>4</b>	<p>Write function definition for <code>WORD4CHAR()</code> in C++ to read the content of a text file <code>FUN.TXT</code>, and display all those words, which has four characters in it.</p> <p>Example :            If the content of the file <code>fun.TXT</code> is as follows :            When I was a small child, I used to play in the garden with my grand mom. Those days were amazingly funful and I remember all the moments of that time.</p> <p>The function <code>WORD4CHAR()</code> should display the following :            When used play with days were that time</p>	30/04/2017
<b>5</b>	<p>Write a function in C++ to count and display the no of three letter words in the file "VOWEL.TXT".</p> <p>Example:            If the file contains:            A boy is playing there. I love to eat pizza. A plane is in the sky.</p> <p>Then the output should be: 4</p>	03/05/2017
<b>6</b>	<p>Assume a text file "coordinate.txt" is already created. Using this file create a C++ function to count the number of words having first character capital Vowel .Also count the presence of a word 'Do'.</p> <p>Example:            Do less Thinking and pay more attention to your heart. Do Less Acquiring and pay more Attention to what you already have. Do Less Complaining and pay more Attention to giving. Do Less criticizing and pay more Attention to Complementing. Do less talking and pay more attention to SILENCE.</p> <p>Output will be : Total words with capital vowel - 16            Count of 'Do' in file - 5</p>	30/06/2017

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**DATA FILES - BINARY FILES**

<b>7</b>	<p>Write a function in C++ to search for a laptop from a binary file "LAPTOP.DAT" containing the objects of class LAPTOP (as defined below). The user should enter the Model No and the function should search and display the details of the laptop.</p> <pre> class LAPTOP {     long ModelNo ;     float RAM, HDD ;     char Details [120] ; public:     void StockEnter ( )     {   cin &gt;&gt;   ModelNo   &gt;&gt;   RAM   &gt;&gt;   HDD;         gets (Details);     }     void StockDisplay ( )     {   cout &lt;&lt;   ModelNo &lt;&lt;   RAM &lt;&lt;   HDD &lt;&lt;   Details &lt;&lt; endl;     }     long ReturnModelNo ( ) { return ModelNo; } }; </pre>	01/07/2017
<b>8</b>	<p>Write a function display () in C++ to display all the students who have got a distinction(scored percentage more than or equal to 75) from a binary file "stud.dat", assuming the binary file is containing the objects of the following class:</p> <pre> class student {   int rno;     char sname [20];     int percent; public: int retpercent() { return percent; } void getdetails() {   cin &gt;&gt; rno;     gets(sname);     cin &gt;&gt; percent; } void showdetails() {   cout&lt;&lt;rno;     puts(sname);     cout&lt;&lt;percent; } }; </pre>	07/07/2017

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9	<p>Write a definition for function BUMPER() in C++ to read each object of a binary file GIFTS.DAT, find and display details of those gifts, which has remarks as "ÖN DISCOUNT". Assume that the file GIFTS.DAT is created with the help of objects of class GIFTS, which is defined below :</p> <pre> class GIFTS { int ID;char Gift[20],Remarks[20]; float Price; public: void Takeonstock() { cin&gt;&gt;ID;gets(Gift);gets(Remarks);cin&gt;&gt;Price; } void See() { cout&lt;&lt;ID&lt;&lt;"."&lt;&lt;Gift&lt;&lt;"."&lt;&lt;Price&lt;&lt;"."&lt;&lt;Remarks&lt;&lt;endl; } char *GetRemarks() {return Remarks;} }; </pre>	14/07/2017
10	<p>Given the binary file CAR.Dat, containing records of the following class CAR type:</p> <pre> class CAR { int C_No; char C_Name[20]; float Milage; public: void enter( ) { cin&gt;&gt; C_No ; gets(C_Name) ; cin &gt;&gt; Milage; } void display( ) { cout&lt;&lt; C_No ; cout&lt;&lt;C_Name ; cout&lt;&lt; Milage; } int RETURN_Milage( ) { return Milage; } }; </pre> <p>Write a function in C++, that would read contents from the file CAR.DAT and display the details of car with mileage between 100 to 150.</p>	15/07/2017
<b>ARRAYS - ONE DIMENSIONAL ARRAY</b>		
11	<p>Write the definition of a function grace_score (int score [], int size) in C++, which should check all the elements of the array and give an increase of 5 to those scores which are less than 40.  Example: if an array of seven integers is as follows: 45, 35, 85, 80, 33, 27, 90  After executing the function, the array content should be changed as follows: 45, 40, 85, 80, 38, 32, 90</p>	22/07/2017
12	<p>Write an user defined function ABSOLUTE(), that takes an integer array, its size and an integer value to be searched from the array. If the integer value exist in the array, then the function should return the absolute value of the element and if the integer value does not exist in the array, then the function should return zero.  Note: Do not use library function to find the absolute value.</p>	30/07/2017
<b>ARRAYS - TWO DIMENSIONAL ARRAY</b>		

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<b>13</b>	<p>Write a user-defined function swap_row(int ARR[ ][3],int R,int C) in C++ to swap the first row values with the last row values: For example if the content of the array is:</p> <pre>10  20  30 40  50  60 70  80  90</pre> <p>Then after function call, the content of the array should be:</p> <pre>70  80  90 40  50  60 10  20  30</pre>	01/08/2017
<b>14</b>	<p>Write definition for a function SHOWMID(int P[][5], int R, int C) in C++ to display the elements of middle row and middle column from a two dimensional array P having R number of rows and C number of columns.</p> <p>For example, if the content of array is as follows :</p> <pre>115 112 116 101 125 103 101 121 102 101 185 109 109 160 172</pre> <p>The function should display the following as output :</p> <pre>103 101 121 102 101 116 121 109</pre>	05/08/2016
<b>15</b>	<p>Write a function in C++ to find the sum of both left and right diagonal elements from a two dimensional array MAT[3][3].</p> <p>For Example:</p> <p>If the array MAT contents the elements:</p> <pre>5   9   4 6   7   8 2   5   3</pre> <p>Then the output should be:      Sum of left diagonal : 15                      Sum of right diagonal : 13</p>	07/08/2016

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<b>STACKS</b>		
<b>16</b>	Write the function to perform push and pop operation on a dynamically allocated stack of customers implemented with the help of the following structure: <pre>struct employee { int eno; char ename[20]; employee *link; };</pre>	14/08/2016
<b>17</b>	Write the definition of a member function PUSH( ) in C++, to add a new book in a dynamic stack of BOOKS considering the following code is already included in the program : <pre>struct BOOKS { char ISBN[20], TITLE[80]; BOOKS *Link; }; class STACK { BOOKS *Top; public: STACK(){Top=NULL;} void PUSH(); void POP(); ~STACK(); };</pre>	20/08/2016
<b>QUEUES</b>		
<b>18</b>	Write a function in C++ to perform Insert operation in a dynamically allocated Queue containing name of students. <pre>struct Student { int RNo; char Name[20]; Student *Next; };</pre>	25/08/2016
<b>19</b>	Write a function in C++ to delete a node containing names of student , from a dynamically allocated Queue of names implemented with the help of following structure : <pre>struct student { char name[20]; student *next; }*front , *rear;</pre>	30/08/2016

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<b>SQL</b>																																																											
<b>20</b>	<p>Write SQL commands for the queries (i) to (iv) and output for (v) to (viii) based on the tables 'Watches' and 'Sale' given below.</p> <p><b>Watches</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Watchid</th> <th>Watch Name</th> <th>Price</th> <th>Type</th> <th>Qty Store</th> </tr> </thead> <tbody> <tr><td>W001</td><td>HighTime</td><td>10000</td><td>Unisex</td><td>100</td></tr> <tr><td>W002</td><td>LifeTime</td><td>15000</td><td>Ladies</td><td>150</td></tr> <tr><td>W003</td><td>Wave</td><td>20000</td><td>Gents</td><td>200</td></tr> <tr><td>W004</td><td>HighFashion</td><td>7000</td><td>Unisex</td><td>250</td></tr> <tr><td>W005</td><td>GoldenTime</td><td>25000</td><td>Gents</td><td>100</td></tr> </tbody> </table> <p><b>Sale</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Watchid</th> <th>Qty Sold</th> <th>Quarter</th> </tr> </thead> <tbody> <tr><td>W001</td><td>10</td><td>1</td></tr> <tr><td>W003</td><td>5</td><td>1</td></tr> <tr><td>W002</td><td>20</td><td>2</td></tr> <tr><td>W003</td><td>10</td><td>2</td></tr> <tr><td>W001</td><td>15</td><td>3</td></tr> <tr><td>W002</td><td>20</td><td>3</td></tr> <tr><td>W005</td><td>10</td><td>3</td></tr> <tr><td>W003</td><td>15</td><td>4</td></tr> </tbody> </table>	Watchid	Watch Name	Price	Type	Qty Store	W001	HighTime	10000	Unisex	100	W002	LifeTime	15000	Ladies	150	W003	Wave	20000	Gents	200	W004	HighFashion	7000	Unisex	250	W005	GoldenTime	25000	Gents	100	Watchid	Qty Sold	Quarter	W001	10	1	W003	5	1	W002	20	2	W003	10	2	W001	15	3	W002	20	3	W005	10	3	W003	15	4	01/09/2017
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W003	15	4																																																									
	<p>i. To display all the details of those watches whose name ends with 'Time'</p> <p>ii. To display watch's name and price of those watches which have price range in between 5000-15000.</p> <p>iii. To display total quantity in store of Unisex type watches.</p> <p>iv. To display watch name and their quantity sold in first quarter.</p> <p>v. select max(price), min(qty_store) from watches;</p> <p>vi. select quarter, sum(qty_sold) from sale group by quarter;</p> <p>vii. select watch_name,price,type from watches w, sale s where w.watchid!=s.watchid;</p> <p>viii. select watch_name, qty_store, sum(qty_sold), qty_storesum( qty_sold) "Stock" from watches w, sales</p> <p style="padding-left: 40px;">where w.watchid=s.watchid group by s.watchid;</p>																																																										

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<b>21</b>	<p>Consider the following tables Stationary and Consumer. Write SQL commands for the statement (i) to (iv).</p> <p>Table: Stationary</p> <table border="1"> <thead> <tr> <th>S_ID</th> <th>StationaryName</th> <th>Company</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>DP01</td> <td>Dot Pen</td> <td>ABC</td> <td>10</td> </tr> <tr> <td>PL02</td> <td>Pencil</td> <td>XYZ</td> <td>6</td> </tr> <tr> <td>ER05</td> <td>Eraser</td> <td>XYZ</td> <td>7</td> </tr> <tr> <td>PL01</td> <td>Pencil</td> <td>CAM</td> <td>5</td> </tr> <tr> <td>GP02</td> <td>Gel Pen</td> <td>ABC</td> <td>15</td> </tr> </tbody> </table> <p>Table: Consumer</p> <table border="1"> <thead> <tr> <th>C_ID</th> <th>ConsumerName</th> <th>Address</th> <th>S_ID</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Good Learner</td> <td>Delhi</td> <td>PL01</td> </tr> <tr> <td>06</td> <td>Write Well</td> <td>Mumbai</td> <td>GP02</td> </tr> <tr> <td>12</td> <td>Topper</td> <td>Delhi</td> <td>DP01</td> </tr> <tr> <td>15</td> <td>Write &amp; Draw</td> <td>Delhi</td> <td>PL02</td> </tr> <tr> <td>16</td> <td>Motivation</td> <td>Bangalore</td> <td>PL01</td> </tr> </tbody> </table> <p>(i) To display the details of those consumers whose Address is Delhi.  (ii) To display the details of Stationary whose Price is in the range of 8 to 15. (Both Value included)  (iii) To display the ConsumerName, Address from Table Consumer, and Company and Price from table Stationary, with their corresponding matching S_ID.  (iv) To increase the Price of all stationary by 2.  c) Write the output for SQL queries (v) to (viii):  (v) SELECT DISTINCT Address FROM Consumer;  (vi) SELECT Company, MAX(Price), MIN(Price), COUNT(*) from Stationary GROUP BY Company;  (vii) SELECT Consumer.ConsumerName, Stationary.StationaryName, Stationary.Price FROM Strionary, Consumer WHERE Consumer.S_ID=Stationary.S_ID;  (viii) Select StationaryName, Price*3 From Stationary;</p>	S_ID	StationaryName	Company	Price	DP01	Dot Pen	ABC	10	PL02	Pencil	XYZ	6	ER05	Eraser	XYZ	7	PL01	Pencil	CAM	5	GP02	Gel Pen	ABC	15	C_ID	ConsumerName	Address	S_ID	01	Good Learner	Delhi	PL01	06	Write Well	Mumbai	GP02	12	Topper	Delhi	DP01	15	Write & Draw	Delhi	PL02	16	Motivation	Bangalore	PL01	15/09/2017
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<b>22</b>	<p>Consider the following table FLIGHT and FARES. Write the SQL commands for the statements (i) to (iv) and output from (v) to (viii).</p> <p>Table: FLIGHT</p> <table border="1"> <thead> <tr> <th>FL_NO</th> <th>DEPARTURE</th> <th>ARRIVAL</th> <th>NO_FLIGHTS</th> <th>NOOFSTOPS</th> </tr> </thead> <tbody> <tr><td>IC301</td><td>MUMBAI</td><td>DELHI</td><td>8</td><td>0</td></tr> <tr><td>IC799</td><td>BANGALORE</td><td>DELHI</td><td>2</td><td>1</td></tr> <tr><td>MC101</td><td>INDORE</td><td>MUMBAI</td><td>3</td><td>0</td></tr> <tr><td>IC302</td><td>DELHI</td><td>MUMBAI</td><td>8</td><td>0</td></tr> <tr><td>AM812</td><td>KANPUR</td><td>BANGALORE</td><td>3</td><td>1</td></tr> <tr><td>IC899</td><td>MUMBAI</td><td>KOCHI</td><td>1</td><td>4</td></tr> <tr><td>AM501</td><td>DELHI</td><td>TRIVANDRUM</td><td>1</td><td>5</td></tr> <tr><td>MU499</td><td>MUMBAI</td><td>MADRAS</td><td>3</td><td>3</td></tr> <tr><td>IC701</td><td>DELHI</td><td>AHMEDABAD</td><td>4</td><td>0</td></tr> </tbody> </table> <p>Table: FARE</p> <table border="1"> <thead> <tr> <th>FL_NO</th> <th>AIRLINES</th> <th>FARE</th> <th>TAX%</th> </tr> </thead> <tbody> <tr><td>1C701</td><td>Indian Airlines</td><td>6500</td><td>10</td></tr> <tr><td>MU499</td><td>Sahara</td><td>9400</td><td>5</td></tr> <tr><td>AM501</td><td>Jet Airways</td><td>13450</td><td>8</td></tr> <tr><td>IC899</td><td>Indian Airlines</td><td>8300</td><td>4</td></tr> <tr><td>1C302</td><td>Indian Airlines</td><td>4300</td><td>9</td></tr> <tr><td>1C799</td><td>Indian Airlines</td><td>10500</td><td>10</td></tr> <tr><td>MC101</td><td>Deccan Airlines</td><td>3500</td><td>4</td></tr> </tbody> </table> <p>(i) Display Flight No, No of Flights arriving to the DELHI  (ii) Display all the airlines that have maximum no of flights.  (iii) Display total fare of all the airlines.  (iv) To display departure and arrival points of flight no 1C302 and MU499.  Give the Output:  (v) SELECT COUNT(DISTINCT FL_NO) FROM FLIGHT;  (vi) SELECT MIN(NOOFSTOPS) FROM FLIGHT WHERE FL_NO = 'IC899';  (vii) SELECT AVG(FARE) FROM FARE WHERE AIRLINES = 'Indian Airlines';  (viii) SELECT FL_NO, NO_FLIGHTS FORM FLIGHT WHERE DEPARTURE = 'MUMBAI';</p>	FL_NO	DEPARTURE	ARRIVAL	NO_FLIGHTS	NOOFSTOPS	IC301	MUMBAI	DELHI	8	0	IC799	BANGALORE	DELHI	2	1	MC101	INDORE	MUMBAI	3	0	IC302	DELHI	MUMBAI	8	0	AM812	KANPUR	BANGALORE	3	1	IC899	MUMBAI	KOCHI	1	4	AM501	DELHI	TRIVANDRUM	1	5	MU499	MUMBAI	MADRAS	3	3	IC701	DELHI	AHMEDABAD	4	0	FL_NO	AIRLINES	FARE	TAX%	1C701	Indian Airlines	6500	10	MU499	Sahara	9400	5	AM501	Jet Airways	13450	8	IC899	Indian Airlines	8300	4	1C302	Indian Airlines	4300	9	1C799	Indian Airlines	10500	10	MC101	Deccan Airlines	3500	4	30/09/2017
FL_NO	DEPARTURE	ARRIVAL	NO_FLIGHTS	NOOFSTOPS																																																																																
IC301	MUMBAI	DELHI	8	0																																																																																
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1C701	Indian Airlines	6500	10																																																																																	
MU499	Sahara	9400	5																																																																																	
AM501	Jet Airways	13450	8																																																																																	
IC899	Indian Airlines	8300	4																																																																																	
1C302	Indian Airlines	4300	9																																																																																	
1C799	Indian Airlines	10500	10																																																																																	
MC101	Deccan Airlines	3500	4																																																																																	

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