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| ASSIGNMENT : 6 SHEET :1 of 1 |
| COURSE TITLE : CPP |
| MODULE NAME : Inheritance,Friend Function,Virtual Function |

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| **Theory :**  Q-1. What is inheritance mean?  Q-2. List out different types of inheritance.  Q-3. Why we use Friend function? Why is it beneficial?  Q-4. What is Virtual function? Why it is required?  **Practical :**  Q-1. Define a class called **cricket** that will describe the following Information.  Player name  Team name  Batting average  Using cricket class, declare an array player with 3 elements and write a program to  Read the information about all the 3 players and print a team-wise list containing.  names of players with their average  Q-2. Write a program for Hardware company. Ask the user to choose F for Floppy, C for  CD,P for Pen drive. Show the price of each item. Show price of a hardware  Manufactured with the chosen wood. Floppy price is 15 Rs., CD price is 20 Rs and  Pen drive price is 1250 Rs. The class name is Hardware.  Q-3. Write a menu driven an Application program.  1.Check for positive or negative number  2.Check for odd or even number  3.Check for primary number  4.Check for Palindrome number  5.Check for Armstrong number  6.Check for number whether a member of fibonacci series  7.Exit      Q-4 Create class to implements all above methods.  Develop one class, which contains three data members (two integers and 1 character).  Define three member functions for getdata (), calculate () and display (). Write down  menu driven program to read a single character and According to given character value  (‘+’ for addition, ‘-‘ for subtraction, ‘\*’ for multiplication and ‘\’ for division) perform  Arithmetic operations on given two integer values.      **Output:**  Arithmetic Operation  1. Addition  2. Subtraction  3. Multiplication  4. Division  0. Exit  Enter your choice (+,-,\*,/, 0 for exit)….+  Enter first number : 10  Enter second number : 20  Sum of 10 and 20 is 30.  Q-5. Write a C++ program to build a class myarray having integer array as a data  member and Following member function.  [i]. void sort\_asc() : To sort an array in ascending order.  [ii] void sort\_desc() : to sort an array in descending order  [iii] void sort\_search() : to serch an array element  Write menu driven program for sorting either ascending or descending  order an alsofor exit from a program |
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