CAP-904 FUNDAMENTALS OF JAVA

Date of Submission: April 20,2020   Max Marks: 50

Name : _____   Section(Group):_____   Reg No: _____

Important Instruction to follow :

 i)   **Write your Name , Section(Group) and Registration number on the very first page of the solution.**
 ii)   **Non-submission or Copy Cases will lead to ZERO marks.**
 iii)   **No extension allowed in Date of Submission.**
 iv)   **All questions are compulsory.**
 v)   **Feel free to contact through LPULive app in case of any problem.**

1. Write a program to implement function overriding.
2. Create a class named 'Member' having the following members:
    Data members
    1 - Name
    2 - Age
    3 - Phone number
    4 - Address
    5 - Salary
       It also has a method named 'printSalary' which prints the salary of the members.
       Two classes 'Employee' and 'Manager' inherits the 'Member' class. The 'Employee' and 'Manager' classes have data members 'specialization' and 'department' respectively. Now, assign name, age, phone number, address and salary to an employee and a manager by making an object of both of these classes and print the same.
3. Write a program to create array of objects of class Circle and print areas of ten circle objects.
4. Create a program which takes user input of type String and then delete all the consonants from the string.
5. Create an array of twenty elements and then find the second largest element.

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1. Create a class named 'Shape' with a method to print "This is This is shape". Then create two other classes named 'Rectangle', 'Circle' inheriting the Shape class, both having a method to print "This is rectangular shape" and "This is circular shape" respectively. Create a subclass 'Square' of 'Rectangle' having a method to print "Square is a rectangle". Now call the method of 'Shape' and 'Rectangle' class by the object of 'Square' class.

2. Write a program which takes full name as an argument and prints the abbreviations of first and middle name except the last name which is displayed as it is.
   For eg. Mohandaas Karamchand Gandhi
   Output : M.K. Ganadhi

3. Write a program of float array, the number of elements in which is determined by the user. The elements are also taken as input from the user. Sort the elements using insertion sort.

4. Write a program to implement function overloading.

5. Write a program to print the names of students by creating a Student class. If no name is passed while creating an object of Student class, then the name should be "Unknown", otherwise the name should be equal to the String value passed while creating object of Student class. (Constructor Overloading)