**List of Programs**

**Subject Code: PCS-505 Subject: Java Programming Lab**

1. Write a program to display any message without using main method.
2. Write a program to give the example of following control statements.

2.1 Switch Statements.

2.2 For each style loop.

2.3 Labeled Loop (Use break and continue with such labels)

3. Write a program to demonstrate static variables, methods, and blocks.4. Create a Java program to perform survey on four different model of Maruti (Maruti -K10, Zen-Astelo, Wagnor, Maruti- SX4) owned by person living in four metro cities(Delhi, Mumbai, Chennai & Kolkatta). Display tabulated report like format given below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Maruti-K10 | Zen-Astelo | Wagnor | Maruti-SX4 |
| Delhi |  |  |  |  |
| Mumbai |  |  |  |  |
| Cheenai |  |  |  |  |
| Kolkatta |  |  |  |  |

Calculate numbers of cars of different model in each metro city.

5. Calculate the sum of rows & columns of matrix having size 5x5 in the format given below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Quarter1 | Quarter2 | Quarter3 | Quarter4 | Total |
| Salesman1 |  |  |  |  |  |
| Salesman2 |  |  |  |  |  |
| Salesman3 |  |  |  |  |  |
| Salesman4 |  |  |  |  |  |
| Total |  |  |  |  |  |

6. Write a java program to find the duplicate words exist in the given paragraph using either String or StringBuffer class methods.

**“Super may only be used within a subclass constructor method. The call to super class constructor *super(args-list)* must appear as the first statement within the subclass constructor. The parameters in the super call must match the order and type of the instance variable declared in the superclass. Super class default constructor is available to sub class by default. First super class default constructor is executed then sub class default constructor is executed. “**

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7. Write a Java code to demonstrate define a class, describe its constructor, overload the Constructor, use this keyword and instantiate its object.

8. A class Telcall calculates the monthly phone bill of a consumer. Some of the members of the class are given below:

**Class name:**

Data members/instance variable : phno(phone Number), sname(subscriber Name ) n(number of calls made) and amt (bill amount).

**Member function/methods:**

TelCall() : Parameterized constructor to assign values to data members.

Void compute( ) : to calculate the phone bill amount base on the slabs given below.

Void display( ) : to display the details in the specified format.

**Number of calls Rate**

1 – 100 Rs. 500/- rental charge only

101 – 200 Rs 1.00 per call + rental charge

201-300 Rs. 1.20 per call + rental charge

Above 300 Rs. 1.50 per call + rental charge

9. Write a Java Program to implement array of object.

10. Write a program to demonstrate the uses of ‘super’ keyword.

11. Create a class player with characteristics life, healthStatus, powerToInflictDamage.Write another class spartan which inherits from player and has its own characteristics like weapon\_possessed, winability. Player class has methods like display to show number of lives remaining, current healthStatus. Spartan class has specific methods to calculate winability.

Winability = 0.4\*life+0.6\*powerToInflictDamage

Display winnability of spartan and current healthStatus.

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12. Implement an abstract class shape with classes rectangle and circle.

Shape class contains methods such as area and perimeter.

Implement these methods in rectangle and circle classes.

13. create an interface implementable and add some abstract functions in it.

Add one default method and implement the interface in a class

called implementing .

Show use of @Override annotation also.