Deccan Education Society's

Fergusson College (Autonomous), Pune

Department of Mathematics

M.Sc. (IMCA) (2024-2025)

Second Year – Semester III

MTS-621 Practical Lab VI (Core Java)

Java Assignment -2

Methods in Java – I

Note: For all the above programs introduce and appropriate class and implement a mentioned method.

Write a java program for the following:

PART A:

1. Write a method to accept the age from user and check if person is eligible for voting.
2. Write following methods with appropriate arguments and return values:
   a. Method 1 – Accept the random number of values in integer array
   b. Method 2 – Find if any duplicates are there and find number f unique values and return the unique values.

   Write a method in Bank class to update the Balance of customers depending on transactions such as withdraw, deposit. Method should accept and return an array. Method should return – updated balance and last transaction details. Accept the following from user:
   1. Number of customers
   2. Type of transactions
   3. Other required back details.
3. Write a method for find the number of prime numbers in the given range.

PART B:

   Write a method to calculate the average rainfall in the given state.
   Accept the following inputs from the user:
   a. Name of the state
   b. Number of regional divisions
   c. Names of regional divisions
   d. Number of months (for which we need to calculate the rainfall)
   e. Rainfall in each month in the region.