

Practical # 5: Defining Class and its Constructs

Tasks Sheet

1. Use Scanner class and its functions for taking inputs.
2. Create a java class having an integer type array as instance variable. Create a function; populateArray() to fill in the array by taking user input. Create another function for printing the number of even and odd numbers in the array.
3. Develop a java class called Dog having three data members; name, breed and age. Create a function setDetails() which initializes these data members after taking parameters. Create another function showDetails() which print these values if these values are initialized otherwise show a message that *details are unavailable*.
4. Create a **Student** class that stores student data, provides methods for initializing and displaying student data. Also provide a parameterized constructor for initializing student class data members.
5. Create **Marksheet** class having three subjects as variables, methods for calculating total marks, percentage, and grade.
6. Create a class that combines **Student** and **Marksheet**. The result class must have a constructor that takes student and marksheet objects as parameters and then these objects are used by createStudentResult() function to display student's bio-data and his marksheet.
7. Write a program that reads two strings in the following format:
Ali, 18, BE-Software; Aisha, 19, BE-Electronics;
and prints the following output:
Student 1
Name: Ali
Age: 18
Program: BE-Software

Student 2

Name: Aisha

Age: 19

Program: BE-Electronics