

Sheet 3

1. Write a java program which is designed to find and print the minimum value in an array of integers **entered by the user**. The program consists of a **main** method and a **min** method.

2. Find the syntax errors in the definitions of the following classes:

a. public class AA

```
{  
    private int x;  
    private int y;  
    public void print() {  
        System.out.println(x + " " + y);  
    }  
    public int sum()  
    {  
        return x + y;  
    }  
}
```

b. public class BB

```
{  
    private int one;  
    private int two;  
    public boolean equal() {  
        return (one == two);  
    }  
    public print() {  
    }  
}
```

3. Design a class named Square. The class contains:

- a. Private data fields side and color.
- b. A no-arg constructor for the default instance variables.
- c. A constructor for the arguments for side and color.
- d. The accessor methods for all data fields.
- e. The mutator methods for all data fields.
- f. A method getArea() that returns the area of a square.
- g. A method getPer() that returns the perimeter of a square.
- h. Write a test program that creates two squares and calculate the area and the perimeter for each one.

4. Design a class called 'Employee' in Java that includes the following

items:

- a. A constructor that takes a 'name' parameter to initialize the employee's name.
- b. A method 'empAge' that allows you to set the employee's age.
- c. A method 'empDesignation' that lets you set the employee's designation.
- d. A method 'empSalary' for setting the employee's salary. A 'printEmployee' method that prints out the employee's name, age, designation, and salary when called.