Code at Random (OPC) PVT. LTD.

Module 3: Programming using Scanner class.

Programs to Practice

- WAP to print the product of two numbers provided by the user.
- WAP to print area and perimeter of a rectangle whose length and width are provided by the user.
- WAP to swap the value of a & b which are provided by the user (by using third variable).
- WAP to print the net salary of an employee whose basic is provided by the user and TA (30% of Basic), DA (25% of Basic), PF (12.5% of Basic) & Net (Basic + TA + DA – PF).
- WAP to print the username , city, and age of the user which will be given by the user.
- WAP to print volume of the cube whose side length is given by the user.

Solutions of the program

WAP to print the product of two numbers provided by the user.

```
import java.util.Scanner;
public class product
{
    void main()
    {
        int a, b, product;
       Scanner sc = new Scanner(System.in);
        a = sc.nextInt();
        b = sc.nextInt();
        product = a*b;
        System.out.print("The product is:" +product);
    }
}
```

WAP to print area and perimeter of a rectangle whose length and width are provided by the user.

```
import java.util.Scanner;
public class area_peri{
    void main() {
        Scanner sc = new Scanner(System.in);
        int length, width;
        length = sc.nextInt();
        width = sc.nextInt();
        double area, perimeter;
         area = length*width;
         perimeter = 2*(length+breadth);
        System.out.println("The area is:"+area);
        System.out.println("The perimeter is:"+perimeter);
    }
}
```

Solutions of the program

WAP to swap the value of a & b which are provided by the user (by using third variable).

```
import java.util.Scanner;
public class swap  {
   void main()    {
       int a, b,t ;
      Scanner sc = new Scanner(System.in);
       a = sc.nextInt();
       b = sc.nextInt();
        t = a;
       a = b;
       b = t;
System.out.print("The value of a is “+ a +" the value of b is " +b);
   }
}
```

WAP to print the net salary of an employee whose basic is provided by the user and TA (30% of Basic), DA (25% of Basic), PF (12.5% of Basic) & Net (Basic + TA + DA – PF).

```
import java.util.Scanner;
public class amount{
   void main() {
       Scanner sc = new Scanner(System.in);
       int basic = sc.nextInt();
       double net_amt;
        double TA  = 0.3*basic;
        double DA = 0.25*basic;
        double PF = 0.125*basic;
         net_amt = basic+TA+DA-PF;
       System.out.println("The net amount is: "+net_amt);
   }
}
```

Solutions of the program

WAP to print the username , city, and age of the user which will be given by the user.

```
import java.util.Scanner;
public class details
{
   void main()    {
       int age;
       String username, city;
      Scanner sc = new Scanner(System.in);
      username = sc.nextLine();
      city = sc.next();
      age = sc.nextInt();
     System.out.println(“Username is “ + username + “\n City is ”+city + “\n Age is ” + age);
   }
}
```

WAP to print volume of the cube whose side length is given by the user.

```
import java.util.Scanner;
public class volume{
   void main() {
       Scanner sc = new Scanner(System.in);
       double side;
       side= sc.nextDouble();
       double volume;
      volume = side *side * side;
      System.out.println("The volume of the cube is: "+volume);
   }
}
```