

Encapsulation-

Java Program to Get Input from User-

1.WAP to accept name,roll no,marks of 5 subject,calculate percentage and grade display.(Per,Grade)

```
import java.util.Scanner;

class encap_demo {
    private int sub1,sub2,sub3,sub4,sub5,avg;
    private char gr;
    public int roll;
    public String name;
    Scanner sc=new Scanner(System.in);
    public void set_per(int newval)
    {
        avg=newval;
    }
    public int get_per() {
        return avg;
    }
    public void set_gr(char newval) {
        gr=newval;
    }
    public char get_gr() {
        return gr;
    }
    public void acc() {

        System.out.println("Enter your roll no :");
        roll=sc.nextInt();
        System.out.println("Enter your name :");
        name=sc.next();
        System.out.println("Enter student marks of English sub1 is :");
        sub1=sc.nextInt();
        System.out.println("Enter student marks of Science sub2 is :");
        sub2=sc.nextInt();
        System.out.println("Enter student marks of Computer sub3 is :");
        sub3=sc.nextInt();
        System.out.println("Enter student marks of Maths sub4 is ");
        sub4=sc.nextInt();
        System.out.println("Enter student marks of Physics sub5 is");
        sub5=sc.nextInt();
    }
    public void calc() {

        avg=(sub1+sub2+sub3+sub4+sub5)/5;

        if(avg>=90 && avg<=100) {
            gr='O';
        }
        else if (avg>=75 && avg<90) {
            gr='A';
        }
    }
}
```

```

        else if (avg>=60 && avg<75) {
            gr='B';
        }
        else if (avg>=50 && avg<60) {
            gr='C';
        }
        else if (avg>=35 && avg<50) {
            gr='D';
        }
    }
    else {
        gr='F';
    }
}
}
}
public class Encapsulation {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        encap_demo obj=new encap_demo();
        obj.set_per(0);
        obj.set_gr('z');
        obj.acc();
        obj.calc();
        System.out.println("Enter your name is "+obj.name);
        System.out.println("Enter your roll no is "+obj.roll);
        System.out.println("Enter your percentage is="+obj.get_per());
        System.out.println("Enter your grade is "+obj.get_gr());

    }
}

```

OUTPUT-

```

Enter your roll no :
1
Enter your name :
Apeksha
Enter student marks of English sub1 is :
90
Enter student marks of Science sub2 is :
85
Enter student marks of Computer sub3 is :
70
Enter student marks of Maths sub4 is
78
Enter student marks of Physics sub5 is
68
Enter your name is Apeksha
Enter your roll no is 1
Enter your percentage is=78
Enter your grade is =A

```