

- 1). Write a program in JAVA to display your name.

```
import java.util.*;
class ParthRawat
{
    public static void main (String args[])
    {
        System.out.println ("PARTH RAWAT");
    }
}
```

PARTH RAWAT

- 2). Write a program in JAVA to accept an integer and check whether it's an even or an odd number.

```
import java.util.*;
class evenodd
{
    public static void main (String args[])
    {
        Scanner = new Scanner (System.in);
        System.out.println ("Enter any Integer: \t");
        int n = s.nextInt();
        if (n%2 == 0)
            System.out.println (n + " is an even number.");
        else
            System.out.println (n + " is an odd number.");
    }
}
```

**Enter any Integer: 45
45 is an odd number**

3) Write a program in JAVA to accept a positive integer 'n' and find the n^{th} root of the given positive integer.

```
import java.util.*;
class forth
{
    public static void main (String args[])
    {
        Scanner s = new Scanner (System.in);
        System.out.println ("Enter a positive integer : \t");
        int x = s.nextInt();
        while (x > 0)
        {
            System.out.print ("Enter the root : \t");
            int m = s.nextInt();
            float a = pow(x, (1 / m));
            break;
        }
        System.out.println (" $x^{1/m} = a$ ");
    }
}
```

Enter a positive integer: 16
Enter the root: 2
 $16^{1/2} = 4$

4). Write a program in JAVA to accept the number of units consumed (in 'units') and to print the electricity bill using the following table:

Units Consumed	Rate per unit
less than 100	₹ 1.20
For next 200 units	₹ 2.00
For next 100 units	₹ 3.00
greater than 400	₹ 3.50

```

import java.util.*;
class ElectricityBill
{
    public static void main (String args[])
    {
        Scanner s = new Scanner (System.in);
        System.out.print ("Enter number of units consumed : ");
        float units = s.nextFloat();
        if (units <= 100.0)
        {
            float billAmount = (1.80 * units);
            System.out.println ("Bill Amount : " + billAmount);
        }
        else if (units > 100.0 & units <= 300.0)
        {
            float billAmount = ((1.80 * 100) + ((units - 100.0) * 2.00));
            System.out.println ("Bill Amount : " + billAmount);
        }
        else if (units > 300.0 & units <= 400.0)
        {
            float billAmount = (((1.80 * 100) + (200.0 * 2.00)) +
                ((units - 300.0) * 3.00));
            System.out.println ("Bill Amount : " + billAmount);
        }
        else
        {
            float billAmount = ((1.80 * 100) + (2.00 * 2.00) + (300.0 * 1.00));
            System.out.println ("Bill Amount : " + billAmount);
        }
    }
}

```

Enter the number of units consumed : 472
 Bill Amount : 1072.00