Name - Akriti Choudhary Roll number- 2005776 Section- cse25 Date - 25/1/2022 WT LAB2

1. WAP to find the perimeter and area of a circle given a value of radius

2. WAP to find the largest among three numbers x, y, and z. You should use if-then-else construct in Java.

```
import java.util.*;
public class Num
      public static void main(String[] args)
             System.out.println("Enter three numbers :");
             Scanner sc = new Scanner(System.in);
             int a, b, c;
             a = sc.nextInt();
             b = sc.nextInt();
             c = sc.nextInt();
             int max = a;
             if(max < b)
             {
                    max = b;
             }
             if(max < c)
                    max = c;
             System.out.println("Largest Number = " + max);
      }
}
```

3.WAP to calculate sum of all the numbers divisible by 3 from 0 to n. Print the sum.

```
import java.util.*;
public class NumSum
      public static void main(String[] args)
             System.out.println("Enter the limit :");
             Scanner sc = new Scanner(System.in);
             int n;
             n = sc.nextInt();
             int sum = 0;
             for(int i = 0; i <= n; ++i)
                   if(i \% 3 == 0)
                          sum += i;
             System.out.println("Sum = "+sum);
      }
}
4. WAP to check whether the number is an Armstrong number or not.
the sum
```

Armstrong Number: A positive number is called an Armstrong number if it is equal to of cubes of its digits for example 153 = 13+53+33, 370, 371, 407, etc.

```
import java.util.*;
import java.lang.Math;
class Armstrong_Number
      public static void main(String[] args)
             Scanner sc = new Scanner(System.in);
             System.out.println("Enter the number: ");
             int n = sc.nextInt();
             int rem;
             int p = n;
             int sum = 0;
             while(p!=0)
             {
                    rem = p \% 10;
                    sum += Math.pow(rem,3);
                    p = p/10;
             if(sum == n)
                    System.out.println("Armstrong number");
             }
```

 ${\bf 5.~WAP}$ to find the highest mark and average mark secured by him in "5" number of subjects.

```
import java.util.*;
import java.lang.Math;
class marks
{
      public static void main(String[] args)
              Scanner sc = new Scanner(System.in);
              int[] arr = new int[5];
              int sum = 0;
              System.out.println("Enter 5 elements in the array: ");
             for(int i = 0; i < 5; ++i)
              {
                     arr[i] = sc.nextInt();
              int max = arr[o];
             for(int i = 0; i < 5; ++i)
                     sum += arr[i];
                    if(arr[i] > max)
                     {
                           max = arr[i];
              System.out.println("Max = " +max +"\n"+ "Average = " +sum/4);
      }
}
```