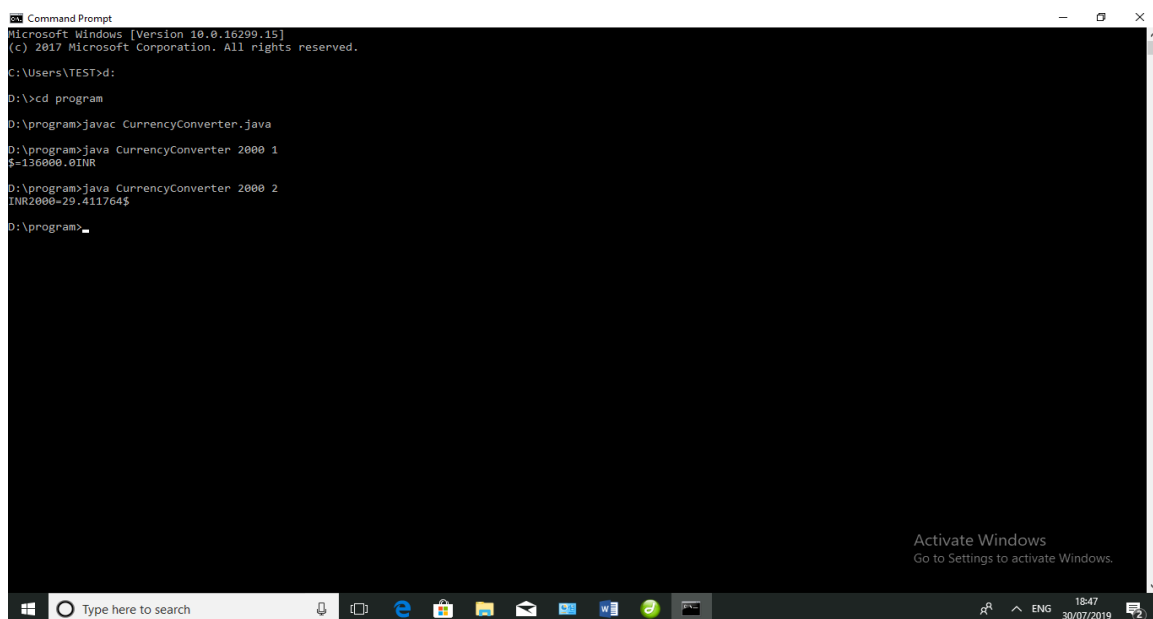


Assignment-1

Program 1: Write a program to convert USD to INR and INR to USD.

```
class CurrencyConverter
{
    public static void main(String args[])
    {
        int currency= Integer.parseInt(args[0]);
        float rate=68;
        int currencyType= Integer.parseInt(args[1]);
        if(currencyType==1)
            System.out.println("$" + "=" + (currency*rate) + "INR");
        else
            System.out.println("INR" + currency + "=" + (currency/rate) + "$");
    }
}
```



```
Microsoft Windows [Version 10.0.16299.15]
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C:\Users\TEST>cd D:\program
D:\program>javac CurrencyConverter.java
D:\program>java CurrencyConverter 2000 1
$=136000.0INR
D:\program>java CurrencyConverter 2000 2
INR2000=29.411764$
D:\program>
```

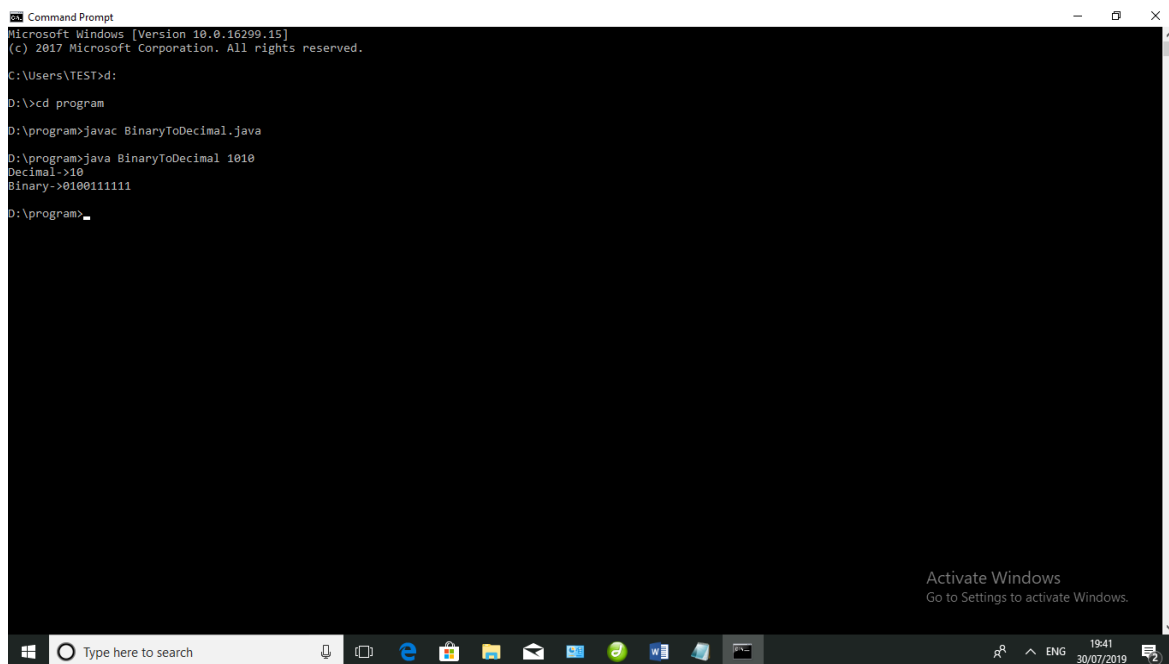
Activate Windows
Go to Settings to activate Windows.

Program 2: Write a program to convert Binary to Decimal and Decimal to Binary.

```
class BinaryToDecimal
{
    public static int binaryToDecimal(int binary)
    {
        int rem;
        int i =0;
        int decimal = 0;
        while(binary!=0)
        {
            rem=binary%10;
            decimal += rem*Math.pow(2,i);
            binary = binary/10;
            i++;
        }
        return decimal;
    }

    public static String decimalToBinary(int decimal)
    {
        int binaryNum;
        String binary = "";
        while(decimal>0)
        {
            binaryNum = decimal%2;
            binary = binary + "" + binaryNum;
            decimal = decimal/2;
        }
        return binary;
    }
}
```

```
    }  
  
    public static void main(String args[]){  
        int number = Integer.parseInt(args[0]);  
  
        int d = binaryToDecimal(number);  
        String b = decimalToBinary(number);  
        System.out.println("Decimal->" + d);  
        System.out.println("Binary->" + b);  
    }  
}
```



```
Command Prompt  
Microsoft Windows [Version 10.0.16299.15]  
(c) 2017 Microsoft Corporation. All rights reserved.  
  
C:\Users\TEST>cd  
D:\>cd program  
D:\program>javac BinaryToDecimal.java  
D:\program>java BinaryToDecimal 1010  
Decimal->10  
Binary->010011111  
D:\program>_
```

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Program 3: Write a program to implement Basic Calculator.

```
class BasicCalculator
{
    public static void main(String args[])
    {
        int num1 = Integer.parseInt(args[0]);
        int num2 = Integer.parseInt(args[2]);
        String op = args[1];

        if(op.equals("+")){
            int addition = num1 + num2;
            System.out.println(addition);

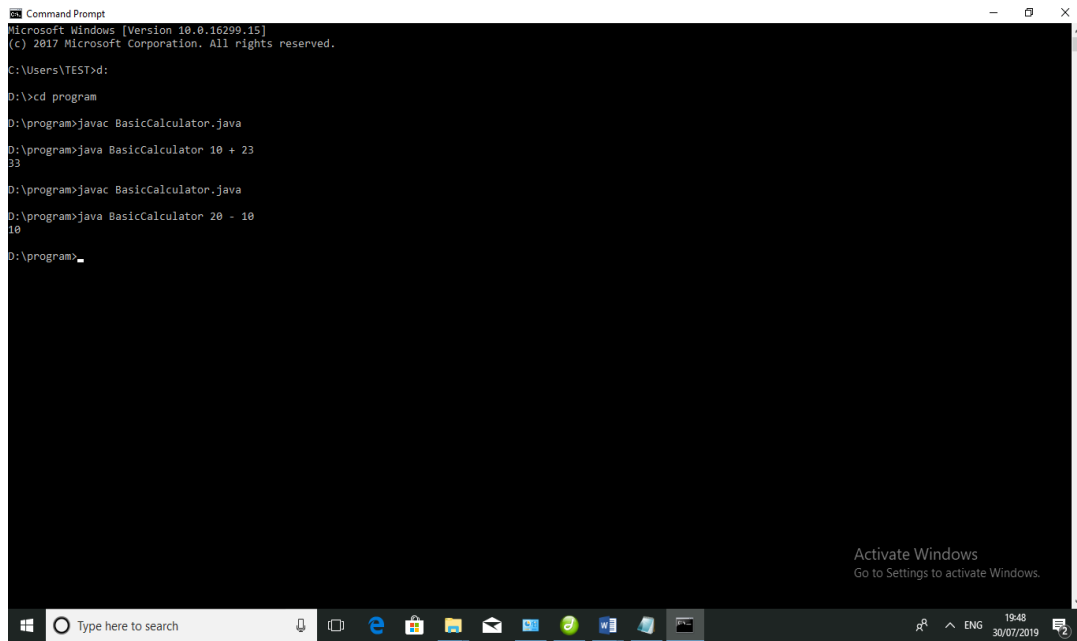
        }else if(op.equals("-")){
            int subtraction = num1 - num2;
            System.out.println(subtraction);

        }else if(op.equals("x")){
            int multiplication = num1 * num2;
            System.out.println(multiplication);

        }else if(op.equals("/")){
            float division = num1/num2;
            System.out.println(division);

        }else{
            System.out.println("Enter Valid Operation Symbol");
        }

    }
}
```



```
Command Prompt
Microsoft Windows [Version 10.0.16299.15]
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C:\Users\TEST>cd
D:\>cd program
D:\program>javac BasicCalculator.java
D:\program>java BasicCalculator 10 + 23
33
D:\program>javac BasicCalculator.java
D:\program>java BasicCalculator 20 - 10
10
D:\program>
```

Activate Windows
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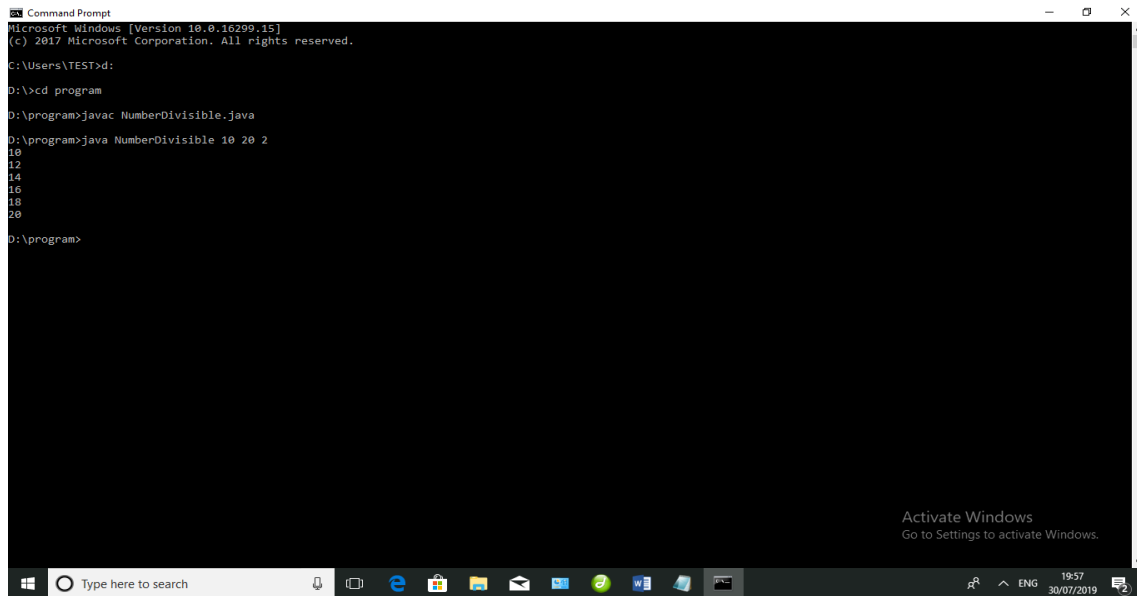
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19:48
30/07/2019

Program 4: Write a program to list the number divisible by n between n1 and n2 range.

```
class NumberDivisible
{
    public static void main(String args[])
    {
        if (args.length!=3){
            System.out.println("Invalid Parameters\nValid Format:\n java <filename>
<startingRange> <endingRange> <Divisor> \n E.g: java NumberDivisible 10 20 2");
        }
        int range1 = Integer.parseInt(args[0]);
        int range2 = Integer.parseInt(args[1]);
        int n = Integer.parseInt(args[2]);

        for(int i = range1;i<=range2;i++)
        {
            if((i%n)==0)
            {
                System.out.println(i);
            }
        }
    }
}
```



The screenshot shows a Windows Command Prompt window with the following text:

```
Microsoft Windows [Version 10.0.16299.15]
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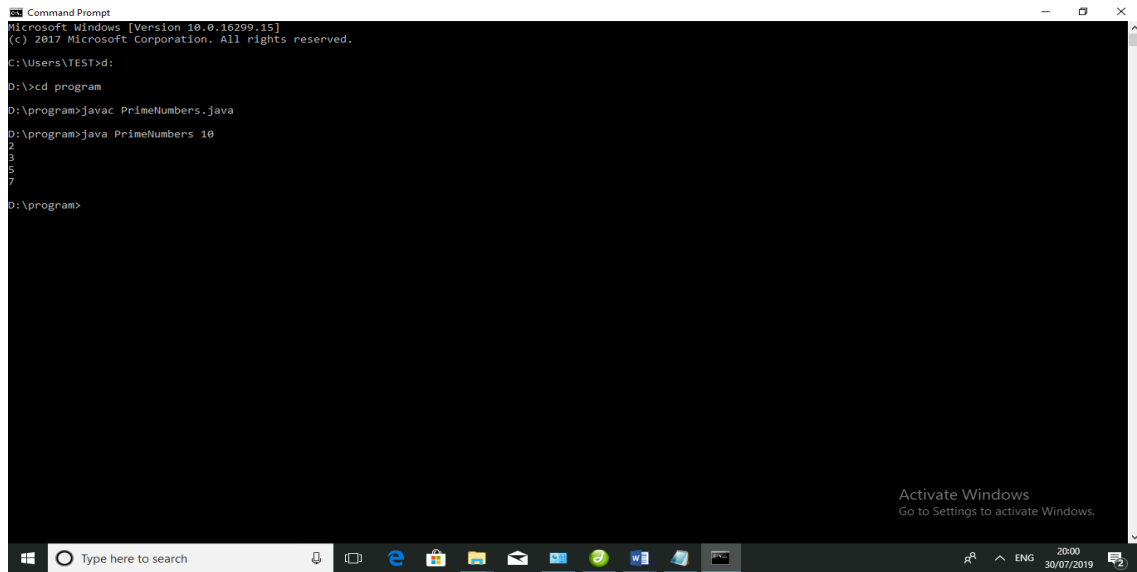
C:\Users\TEST>d:
D:\>cd program
D:\program>javac NumberDivisible.java
D:\program>java NumberDivisible 10 20 2
10
12
14
16
18
20
D:\program>
```

An "Activate Windows" watermark is visible in the bottom right corner of the Command Prompt window, with the text "Go to Settings to activate Windows."

Program 5: Write a program to display first N prime numbers

```
public class PrimeNumbers
{
    public static void main(String args[])
    {
        if (args.length!=1){
            System.out.println("Invalid Parameters\nValid Format:\n java <filename>
<range>\n E.g: java PrimeNumbers 10");
        }
        int range = Integer.parseInt(args[0]);

        for(int i=1;i<=range;i++)
        {
            int count=0;
            for(int j=1;j<=range;j++)
            {
                if(i%j==0)
                {
                    count++;
                }
            }
            if(count==2)
            {
                System.out.println(i);
            }
        }
    }
}
```

```
Microsoft Windows [Version 10.0.16299.15]
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C:\Users\TEST>d:
D:\>cd program
D:\program>javac PrimeNumbers.java
D:\program>java PrimeNumbers 10
2
3
5
7
D:\program>
```

Activate Windows
Go to Settings to activate Windows.

Type here to search

20:00
30/07/2019

