Q1 Write a program to print multiples of a number upto a limit. Take inputs from the user.

```
import java.io.*;
class Program1

public static void main(String[] args) throws IOException
{
    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
    System.out.println("Enter a number: ");
    int num1 = Integer.parseInt(br.readLine());

    System.out.println("Enter limits: ");
    int num2 = Integer.parseInt(br.readLine());
    for(int i=1; i<num2; i++)
    {
        int x=num1*i;
        if(x<=num2)
        {
            System.out.println(x);
        }
    }
}</pre>
```

```
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ vim Program1.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program1.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ java Program1
Enter a number:
6
Enter limits:
60
6
12
18
24
30
36
42
48
54
60
```

Q.2) write a program to print the following pattern & Take no of rows from the user.

```
nivrutti17@DESKTOP-VG4KRH9: /mnt/e/java/Assignments/Assignment5
mport java.io.*;
lass Program2
       public static void main(String[] args) throws IOException
                BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
                System.out.println("
                int num1 = Integer.parseInt(br.readLine());
                int num2 = Integer.parseInt(br.readLine());
                for(int i=0 ; i<num1;i++)</pre>
                         for(int j=0;j<num2;j++)</pre>
                                 if(j\%2==0)
                                          System.out.print(x*x+" ");
                                          X++;
                                 else if(j%2==1)
                                          System.out.print(x+" ");
                        System.out.println();
```

```
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ vim Program2.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program2.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ java Program2
Enter number of rows and columns
4
4
1 2 9 4
25 6 49 8
81 10 121 12
169 14 225 16
```

write a program to print the following pattern & Take no of rows from the user.

```
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program3.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program3
Enter number of rows

E D C B A
E D C B A
E D C B A
E D C B A
E D C B A
E D C B A
I D C B A
I D C B A
I D C B A
I D C B A
I D C B A
I D C B A
I D C B A
I D C B A
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I D C B A
I D C B A
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I D C B A
I D C B A
I D C B A
I D C B A
I
```

Q4 write a program to print the following pattern using a nested while loop & Take no of rows from the user.

```
Select nivrutti17@DESKTOP-VG4KRH9: /mnt/e/java/Assignments/Assignment5
mport java.util.*;
class Program4
        public static void main(String[] args)
        {
                 System.out.println("Enter number of rows: ");
                 Scanner sc = new Scanner(System.in);
                 int num1 = sc.nextInt();
                 int i=1;
                 while(i<=num1)</pre>
                          int j=1;
                         while(j<=i)
                                   if(j%2==1)
                                           System.out.print("1"+" ");
                                   {
                                           System.out.print("0"+" ");
                                   j++;
                          System.out.println();
                          i++;
                 }
```

Q5 write a program to print the following pattern & Take no of rows from the user.

```
nivrutti17@DESKTOP-VG4KRH9: /mnt/e/java/Assignments/Assignment5
import java.util.*;
class Program5
        public static void main(String[] args)
        {
                 System.out.println("Enter nu
                 Scanner sc= new Scanner(System.in);
                 int num1 = sc.nextInt();
                 int var1=1;
                 int i=1;
                 while(i<=num1)</pre>
                          int j=<u>1</u>;
                          while(j<=i)
                                   System.out.print(i*j+" ");
                                   var1++;
                                   j++;
                          System.out.println();
                          i++;
                 }
```

```
□ nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5 vim Program5.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program5.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program5.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ java Program5
Enter number of rows:
5
1
2 4
3 6 9
4 8 12 16
5 10 15 20 25
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ vim Program5.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$
■
```

Q6 Write a program to print the tables of 1 to n numbers in reverse order.

Q7 Write a program to print alternative numbers in reverse order between 15 to 30.

```
ivrutti17@DESKTOP-VG4KRH9: /mnt/e/java/Assignments/Assignment5
import java.util.*;
class Program7
        public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter first number");
        int num1 = sc.nextInt();
        System.out.println("Enter second number:");
        int num2 = sc.nextInt();
        for(int i= num2;i>=num1;i--)
                 System.out.print(num2+" ");
                 num2--;
                 num2--;
                 if(num2<=num1)</pre>
                         break;
        System.out.println();
```

```
ivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program7.java nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program7 iava nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ java Program7 Enter first number

15 Enter second number:
30
30 28 26 24 22 20 18 16
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$
```

Write a program to print the count of even numbers which are divisible by 5 from 1 to 50.

```
import java.util.*;
class Program8

public static void main(String[] args)
{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter lower limit: ");
    int num1 = sc.nextInt();
    System.out.println("Enter upper limit: ");
    int num2 = sc.nextInt();

    for(int i=num1;i<=num2;i++)
    {
        if(num1%5==0 && num1%2==0)
        {
            System.out.print(num1+", ");
        }
        num1++;
    }
}</pre>
```

```
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ vim Program8.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program8.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$ javac Program8.java
nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignment5$ java Program8
Enter lower limit:
1
Enter upper limit:
50
10, 20, 30, 40, 50, nivrutti17@DESKTOP-VG4KRH9:/mnt/e/java/Assignments/Assignment5$
```

Q9 write a program to print the following pattern & Take no of rows from the user.

```
nivrutti 17@DESKTOP-VG4KRH9: /mnt/e/java/Assignments/Assignment5
mport java.util.*;
lass Program9
       public static void main(String[] args)
        {
                 Scanner sc = new Scanner(System.in);
                 System.out.println("
                 int num1 = sc.nextInt();
                 for(int i=1; i<=num1;i++)</pre>
                 {
                          for(int j = 1; j \leq i; j++)
                                   System.out.print(var+" ");
                                   var++;
                          var--;
                          System.out.println();
                 }
        }
```

Q10 write a program to print a series of prime numbers from entered range. (Take a start and end number from user).

```
nivrutti17@DESKTOP-VG4KRH9: /mnt/e/java/Assignments/Assignment5
lass Program11
       public static void main(String[] args)
                Scanner sc = new Scanner(System.in);
                System.out.println("
                int num1 =sc.nextInt();
                System.out.println('
                int num2= sc.nextInt();
                System.out.println("Prime numbers: ");
                while(num1<num2)</pre>
                         boolean flag = false;
                         for(int i=2;i <= num1/2;++i)</pre>
                                  if(num1%i==0)
                                           flag = true;
                                  }
                                  {
                                           flag=false;
                         if(!flag && num1 != 0 && num1 !=1)
                                  System.out.print(num1+" ");
                         ++num1;
                }
```