```java
package Assignment3;
//Q 1 wap to print number 1 to 100.
public class Q1 {

    public static void main(String[] args) {

        int table;
        int num=0;
        for(int i=1;i<=100;i++)
        System.out.print(i+"  ");


    }
}
```

Op is 1,23,4,5,6......100


```java
package Assignment3;

public class Q2 {

    public static void main(String[] args) {
        // Q 2 wap to print even numbers between 1 to 20

    System.out.println("Printing Even Number Between to 20");

        for(int i=1;i<=20;i++)
        {
            if(i%2==0)
            {
                System.out.print(i+" ");
            }
        }
    }
}
```

OP is
Printing Even Number Between 1 to 20
2 4 6 8 10 12 14 16 18 20

```java
public class Q3 {

    public static void main(String[] args)
    {

        System.out.println("Printing Cubes From 1 to 5");
        for(int i=1;i<=5;i++)
        {
            System.out.println("Cube of "+i+" = "+(i*i*i));
        }
    }
}
```

Op is
Printing Cubes From 1 to 5
Cube of 1 = 1
Cube of 2 = 8
Cube of 3 = 27
Cube of 4 = 64
Cube of 5 = 125

```java
public class Q4 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter a number to check prime.");
        int n = s.nextInt();
        int flag = 0;
        if (n == 0 || n == 1)
            flag = 1;
        for (int i = 2; i <= n / 2; ++i) {
            if (n % i == 0) {
                flag = 1;
                break;
            }
        }
        if (flag == 0) {
            System.out.println(n + " is a prime number.");
        } else {
            System.out.println(n + " is not a prime number.");
        }
    }
}
```

Op is
Enter a number to check prime.
3
3 is a prime number.

Enter a number to check prime.
26
26 is not a prime number.

Enter a number to check prime.
15
15 is not a prime number.

results
//ex 0 1 1 2 3 5 8 13 21 34
public class Q5 {

    public static void main(String[] args) {

        int n =10;
        int firstTerm =0;
        int secondTerm = 1;
        System.***out***.println("Fibonacci Series for first 1st 10
numbers is : "+" ");
        for (**int** i =1;i<=n;i++)
        {
            System.***out***.print(firstTerm+" ");
        int nextTerm=firstTerm+secondTerm;   //1 2 3
        firstTerm = secondTerm; //1
        secondTerm=nextTerm; //1

        }
    }
}

Op is

Fibonacci Series for first 1st 10 numbers is :
0 1 1 2 3 5 8 13 21 34

```java
import java.util.Scanner;

public class Q6 {

    public static void main(String[] args)
    {
        Scanner sc =new Scanner(System.in);
        System.out.println("Enter the no ");
        int n =sc.nextInt();
        int fact    =1;
        for(int i=1;i<=n;i++)
        {
            fact=fact*i;
        }
        System.out.print("Factorial of "+n+" is  : "+fact);


    }

}
```

Op is
Enter the no
7
Factorial of 7 is   : 5040

Enter the no
5
Factorial of 5 is   : 120

```java
//Q 7wap to ask a number from user and print table of that
number
public class Q7 {

        public static void main(String[] args) {
                int n;
                int table;

                Scanner sc =new Scanner(System.in);
                System.out.println("Enter a number for table you
wants to print  : ");
                n=sc.nextInt();
                System.out.println("Table of : "+n);
                for(int i=0;i<=10;i++)
                {

                        System.out.println(n+ " * "+ i +" \t
"+(table=n*i));
                }
        }
}
```

Op is

```
Enter a number for table you wants to print  :
2
Table of : 2
2  *  0     0
2  *  1     2
2  *  2     4
2  *  3     6
2  *  4     8
2  *  5     10
2  *  6     12
2  *  7     14
2  *  8     16
2  *  9     18
2  *  10    20
```

```java
import java.util.Scanner;

//Q 8 wap to print prime numbers between 2 to 20

public class Q8 {

    public static void main(String[] args) {

        System.out.println("\nPrime numbers between 2 to 20 : ");
        int num = 20, count;

        for (int i = 2; i <= num; i++) {
            count = 0;
            for (int j = 2; j <= i / 2; j++) {
                if (i % j == 0) {
                    count++;
                    break;
                }
            }

            if (count == 0) {
                System.out.println(i);
            }
        }
    }
}
```
OP is

```
Prime numbers between 2 to 20 :
2
3
5
7
11
13
17
19
```

```
**
***
****
*****
```

b)
```
1
 1 2
 1 2 3
1  2 3 4
1 2 3 4 5
```

c)
```
A B  C D
 A B  C
 A  B
 A
```

D
```
A B C D  D C B A
 A B C      C B A
 A B          B A
A                A
```

E
```
A
AB
ABC
ABCD
ABCDE
```

F
```
1
 2 2
 3 3 3
 4 4  4 4
 5 5 5 5 5
```

```java
    public static void main(String[] args) {
        for(int i =1;i<=5;i++)
        {
            for(int j=1;j<=i;j++)
            {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```
OP is
```
*
**
***
****
*****
```

```java
public class Q9 {
    public static void main(String[] args) {

        for (int i = 1; i <= 5; i++) {
            for (int j = 1; j <= i; j++) {
                System.out.print(j);
            }
            System.out.println();
        }
    }
}
```

OP is
```
1
12
123
1234
12345
```

```java
        int letter = 64;
        for (int i = 1; i <= 4; i++) {
            for (int j = 1; j <= 5 -i; j++) {
                System.out.print((char) (letter + j));
            }
            System.out.println();
        }
    }
}
```
op is

ABCD
ABC
AB
A

```java
public class Q9 {
    public static void main(String[] args) {
        int i, j;
        char r = 'A';
        int space = 0;
        for (i = 1; i <= 4; i++) {
            r = 'A';
            for (j = 4; j >= i; j--) {
                System.out.print(r);
                r++;
            }
            for (int l = 0; l < space; l++)
                System.out.print(" ");
            for (j = 4; j >= i; j--) {
                r--;
                System.out.print(r);
            }
            space = space + 2;
            System.out.println();
        }
    }
}
```
Op is
ABCDDCBA
ABC CBA
AB   BA

```java
public static void main(String[] args) {

    char ch='A';

    for(int i=1;i<=5;i++)
    {
        ch='A';
        for(int j=1;j<=i;j++)
        {
            System.out.print(ch);
            ch=++ch;
        }
        System.out.println();
    }
}
}
```

Op is
A
AB
ABC
ABCD
ABCDE

```java
public class Q9 {
    public static void main(String[] args) {
        for (int i = 1; i <= 5; i++) {
            for (int j = 1; j <= i; j++) {
                System.out.print(i);
            }
            System.out.println();
        }
    }
}
```

OP is

1
22
333
4444
55555