Q 1 wap to print number 1 to 100

```java
package A3;

public class A3Q1 {

    public static void main(String[] args) {
        int i=1;
        System.out.println("Print the Number 1 to 100");
        while(i<101)
        {
        System.out.println(i);
        i++;
        }

    }

}
```

```
Print the Number 1 to 100
1
2
3
4
5
6
7
8
9
10
11
12
13
14
1ᴦ
```

2 wap to print even numbers between 1 to 20

```java
package A3;

public class A3Q2 {

    public static void main(String[] args) {
        int i;
        System.out.println("Print the Even Number Between 1 to 20");
        for(i=1;i<20;i++)
        {
        if(i%2==0)
        {
        System.out.println(i);
```

```
        }
    }

}
```

3 wap to print cube of 1 to 5 number.

```java
package A3;

public class A3Q3 {

    public static void main(String[] args) {
        System.out.println("Print the Cube numbers From 1 to 5");
        for(int i=1;i<=5;i++)
        {
        System.out.println("Cube of "+i+" is "+(i*i*i));
        }


    }

}
```

Q 4 wap to check if a number is prime or not .

```java
package A3;
import java.util.Scanner;
public class A3Q4 {

    public static void main(String[] args) {
        int i, n;
        Scanner s=new Scanner(System.in);
        System.out.println(" Enter no. whether it is Prime or Not");
        n=s.nextInt();
        if (n == 0 || n == 1) System.out.println("Not a Prime Number");
        for (i = 2; i <= n; i++)
        {
        if (n % i == 0)
        {
        System.out.println("Not a prime number ");
        break;
        }
        else
        {
        System.out.println("Prime number ");
        break;
        }
        }
```

```
  Enter no. whether it is Prime or Not
24
Not a prime number
```

Q 5 wap to print fibonacci series using for loop i.e adding last two results
ex 0 1 1 2 3 5 8 13 21 34

```java
package A3;

public class A3Q5 {

    public static void main(String[] args) {
        int a=0;
        int b=1;
        int c;
        System.out.print(a+ " " +b);
```

```java
        for(int i=1;i<10;i++)
        {
            c=a+b;
            System.out.print(" " +c);
            a=b;
            b=c;
        }

    }

}
```

Q 6 wap to print factorial of a number
  5*4*3*2*1

```java
package A3;
import java.util.Scanner;
public class A3Q6 {

    public static void main(String[] args) {
        int Factorial=1;
        int i,n;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the No To Find its Factorial :
");
        n=s.nextInt();
         for(i=1;i<=n;i++)
         {
          Factorial=Factorial*i;
         }
        System.out.println("Factorial : "+Factorial);

    }

}
```

```
Enter the No To Find its Factorial :
4
Factorial : 24
```

Q 7wap to ask a number from user and print table of that number

```java
package A3;
import java.util.Scanner;
public class A3Q7 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        int n;
        int i;
        System.out.println("Enter a Number");
        n=s.nextInt();
        for(i=0;i<=10;i++)
        {
        System.out.println(+n+" * "+i+" = "+(i*n));
        }

    }

}
```

```
Enter a Number
45
45 * 0 = 0
45 * 1 = 45
45 * 2 = 90
45 * 3 = 135
45 * 4 = 180
45 * 5 = 225
45 * 6 = 270
45 * 7 = 315
45 * 8 = 360
45 * 9 = 405
45 * 10 = 450
```

Q 8 wap to print prime numbers between 2 to 20

```java
package A3;
public class A3Q8 {

    public static void main(String[] args) {
        System.out.println("\nPrime numbers : ");
        int flag=0;
        int n;
        for (n = 2; n<= 20; n++)
        {
    flag=0;

        for (int i = 2; i < n / 2; i++)
        {
        if (n % i == 0)
        {
            flag=1;
        break;
        }
        }
        if (flag == 0) {
        System.out.println(n+" ");
        }

        }


    }

}
```

```
Prime numbers :
2
3
4
5
7
11
13
17
19
```

Q 9 print patterns like
*
**
***

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

```java
package D4;

public class Starpattern {

    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();
        }

    }

}
```

<terminated> Starpattern [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (Sep 21, 20:

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

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

```java
package D4;

public class Starpattern3 {

    public static void main(String[] args) {
        for(int i=1;i<=5;i++)
        {
            for(int j=1;j<=i;j++)
            {
```

```java
                    System.out.print(j);
            }
            System.out.println();
        }

    }

}
```

```
1
12
123
1234
12345
```

c) A B C D
   A B C
   A B

```java
package D4;

public class Starpattern5 {

    public static void main(String[] args) {
        int i,j;
        for(i=1;i<=4;i++)
        {
        for(j=1;j<=4-i+1;j++)
        {
        System.out.print((char)(j+64)+(""));
        }
        System.out.println("");
        }


    }

}
```

```
ABCD
ABC
AB
A
```

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

```java
package D4;

public class Starpattern6 {

    public static void main(String[] args) {
        int i,j;
        char a='A';
        int space=0;
        for( i=1;i<=4;i++)
        {
          for(j=4;j>=i;j--)
          {
          System.out.print(a);
          a++;
          }
          for(int l=0;l<space;l++)
          System.out.print(" ");

          for( j=4;j>=i;j--)
          {
          a--;
          System.out.print(a);
          }
          space+=2;
          System.out.println();
        }

    }

}
```

```
<terminated> Starpattern6 [Java Application] C:\Program Fil
ABCDDCBA
ABC   CBA
AB     BA
A        A
```

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

```java
package D4;

public class Starpattern4 {

    public static void main(String[] args) {
        for(int i=1;i<=5;i++)
        {
            for(int j=1;j<=i;j++)
            {
                System.out.print((char)(j+64));
            }
            System.out.println();
        }

    }

}
```

A
AB
ABC
ABCD
ABCDE

F) 1
  2 2
  3 3 3
  4 4 4 4
  5 5 5 5 5

```java
package D4;

public class Starpatter2 {

    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();
        }
    }
}
```

1
2 2
3 3 3
4 4 4 4
5 5 5 5 5