```java
//Q 1 wap to print number 1 to 100
package lab3;

public class Ques1 {

	public static void main(String[] args)
	{

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

}
```

Output:

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59
60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87
88 89 90 91 92 93 94 95 96 97 98 99 100
```

```java
//Q 2 wap to print even numbers between 1 to 20
package lab3;

public class Ques2 {

	public static void main(String[] args) {


		for(int i=1;i<=20;i++)
			if(i%2==0)

		    System.out.print(" "+i);

	}

}
```

Output:

```
2 4 6 8 10 12 14 16 18 20
```

```java
//Q 3 wap to print cube of 1 to 5 number.
package lab3;

public class Ques3 {

	public static void main(String[] args) {
		for(int i=1;i<=5;i++)
	   System.out.print(" "+i*i*i);

	}

}
```

Output:

1 8 27 64 125

```
//Q 4 wap to check if a number is prime or not
package lab3;

public class Ques4 {

	public static void main(String[] args) {
		int n, count=0;
		n=7;
		for(int i=2;i<=n/2;i++)
		{

		if(n%i==0)
		{
			System.out.println("number is not prime");
	    count=1;
		  break;

		}
		}
		if(count==0)
			System.out.println("number is prime");
		else
			System.out.println("number is not prime");



	}
}

	}
```

Output:

number is prime

```
/*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*/
package lab3;
public class Ques5 {

	public static void main(String[] args) {
	int x,y,z;
	x=0;
	y=1;

	System.out.print(" "+x+" "+y);
	for(int i=1;i<=8;i++)
	{
		z=x+y;
	   System.out.print(" "+z);
```

```
            x=y;
            y=z;
        }



        }

}
```

Output:

```
0 1 1 2 3 5 8 13 21 34
```

```
/*Q 6 wap to print factorial of a number
   5*4*3*2*1 */
package lab3;
import java.util.Scanner;
public class Ques6 {

        public static void main(String[] args) {
                int f=1;
        Scanner r=new Scanner(System.in);
        System.out.println("Enter number");
        int n =r.nextInt();
        for(int i=1;i<=n;i++)

        {

                f=f*i;
        }

  System.out.println("factorial is :"+f);




        }

}
```

Output:

```
Enter number
5
factorial is :120
```

```java
//Q 7wap to ask a number from user and print table of that number
package lab3;
import java.util.Scanner;

public class Ques7 {

	public static void main(String[] args) {
    Scanner r=new Scanner(System.in);
    System.out.println("enter number");
     int n=r.nextInt();

     for(int i=1;i<=10;i++)
     {

     System.out.println(n+" * "+i+" = "+ n*i);


     }
      }

}
```

Output:

```
enter number
8
8 * 1 = 8
8 * 2 = 16
8 * 3 = 24
8 * 4 = 32
8 * 5 = 40
8 * 6 = 48
8 * 7 = 56
8 * 8 = 64
8 * 9 = 72
8 * 10 = 80
```

```java
//Q 8 wap to print prime numbers between 2 to 20
package lab3;

public class Ques8 {

	public static void main(String[] args) {
		int n, count=0;
		for(n=2;n<=20;n++)
		{
			count=0;
		for(int i=2;i<n/2;i++)
		{

		if(n%i==0)
		{
		    count=1;
		break;

		}
		}

		if(count==0)
			System.out.println(" "+n);
		}

}
	}
```

Output:

```
 2
 3
 5
 7
 11
 13
 17
 19
```

```java
	/*Q 9  print patterns like
*
**
***
****
*****      */
```

```java
package lab3;

public class Ques9a {

	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();
	}


	}

}
```

Output:

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

```java
/*b) 1
     1 2
     1 2 3
     1 2 3 4
     1 2 3 4 5 */
package lab3;

public class Ques9b {

	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();

	    }

	}

}
```

Output:

```
1
12
123
1234
12345
```

```
/*c) A B  C D
     A B  C
     A B
     A*/
 package lab3;

public class Ques9c {
       public static void main(String args[])
       {
char ch;
for(int i=1;i<=4;i++)
{
       ch='A';
       for(int j=4;j>=i;j--)
       {
       System.out.print(ch);
       ch++;
       }
       System.out.println();

}
       }
}
```

Output:

```
ABCD
ABC
AB
A
```

```
/* A B C D  D C B A
   A B C      C B A
   A B          B A
   A              A       */
package lab3;

public class Ques9d {

       public static void main(String[] args) {

char ch;
int gap=0;
for(int i=1;i<=4;i++)
{
       ch='A';
       for(int j=4;j>=i;j--)
```

```
        {
                System.out.print(ch);
        ch++;
        }

        for(int l=0;l<gap;l++)
        {
                System.out.print(" ");

        }

        for(int j=4;j>=i;j--)
        {
                ch--;
                System.out.print(ch);
        }
      gap=gap+2;
        System.out.println();
}
}

}
```

Output:

```
ABCDDCBA
ABC  CBA
AB    BA
A      A
```

```
/*  A
    AB
    ABC
    ABCD
    ABCDE   */
package lab3;

public class Ques9F {

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

        }
```

Output:

```
A
AB
ABC
ABCD
ABCDE
```

```
/*  1
    2 2
    3 3 3
    4 4  4 4
    5 5 5 5 5       */
package lab3;

public class Quest9f {

	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();
		}

	}

}
```

Output:

```
1
22
333
4444
55555
```