Name : Rushikesh Ramesh Wadje
Lab 3
Assignment No. 3
Concept of Programming

```
package lab_3;

public class Q1 {

	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
```

```
package lab_3;

public class Q2 {

	public static void main(String[] args) {
		System.out.println("Even Numbers Are:");

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


	}
```

```
}
```

```
Even Numbers Are:
 2 4 6 8 10 12 14 16 18 20
```

```
package lab_3;
//Q 3 wap to print cube of 1 to 5 number.

public class Q3 {

	public static void main(String[] args) {
		System.out.println("Cubes of 1 to 5 Number");
		int a;
		 for(int i=1; i<=5;i++)
		 {
			a=i*i*i;
			System.out.print(" "+a);
		 }

	}

}
```

Output:

```
Cubes of 1 to 5 Number
 1 8 27 64 125
```

```
package lab_3;
//Q 4 wap to check if a number is prime or not .

import java.util.Scanner;
public class Q4primenumber {

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

```
            Scanner s=new Scanner(System.in);
        int num1;
        int k=0;
        System.out.println("Enter Any Number:");
        num1=s.nextInt();

        for(int i=2;i<=num1;i++)
        {
            if(num1%i==0)
                k++;

        }
        if(k==1)
        {
            System.out.println("Number is Prime");
        }
        else
            System.out.println("number is not prime");
      }

}
Output:
Enter Any Number:
19
Number is Prime
```

```
package lab_3;
//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
public class Q5 {

      public static void main(String[] args) {
            int num1=0;
            int num2=1;
            int num3;
            System.out.println("Fibonacci series:");
            System.out.print(num1+" "+num2);


         for( int i=2;i<=10;i++)
         {
              num3=num1+num2;
              System.out.print(" "+num3);
```

```
                num1=num2;
                num2=num3;




           }
        }

}
```

Output:

```
Fibonacci series:
0 1 1 2 3 5 8 13 21 34 55
```

```
package lab_3;

public class Q6 {

        public static void main(String[] args) {
                int i=1;
                int num1=5;
                int fact=1;
                for(i=1;i<=5;i++)
                {
                        fact=fact*i;
                }
                System.out.println("Factorial of "+num1+" is="+fact);

        }

}
```

Output:

```
Factorial of 5 is=120
```

```java
package lab_3;
//Q 7wap to ask a number from user and print table of that number
import java.util.Scanner;
public class Q7 {

	public static void main(String[] args) {
		Scanner s=new Scanner(System.in);
		int num1;
		int r;
		System.out.println("Enter Any Number :");
		num1=s.nextInt();
		for(int i=1;i<=10;i++)
		{
			r=num1*i;
			System.out.print(r+" ");

		}


	}

}
```

Output:

```
Enter Any Number :
5
5 10 15 20 25 30 35 40 45 50
```

```java
package lab_3;

public class Q8 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int k=0;
```

```
            int n;
            System.out.println("Prime Numbers Are:");
            for(n=2;n<=20;n++)
            {
            k=0;
              for( int i=2;i<n;i++)
               {
               if(n%i==0)
                 {
                  k=1;
                  break;
            }
             }

            if(k==0) System.out.println( n);
      }
      }
}
```

Output:

```
Prime Numbers Are:
2
3
5
7
11
13
17
19
```

```
package lab_3;

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("*");
                        }
                System.out.println();

            }
      }
```

```
}
```

Output:

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

```
package lab_3;

public class Q9b {

	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
```

```
package lab_3;

public class Q9c {

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

```
		char ch='A';
		for(int i=1;i<=4;i++)
		{
			ch='A';
			for(int j=4;j>=i;j--)
			{
				System.out.print(ch);
				ch++;
			}
			System.out.println();
		}


	}

}
```

```
ABCD
ABC
AB
A
```

```
package lab_3;

public class Pattern {

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

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

		space=space+2;
		}
```

```
	}

}
```

Output:

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

```
package lab_3;

public class Qe {

	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++;
			}
			System.out.println();

		}

	}

}
```

Output:

```
A
AB
ABC
ABCD
ABCDE
```

```
package lab_3;

public class Q9f {

	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
```