

Logical Programs Assignment

1.Fibonacci Series:

```
public class fibonacciSeries {  
  
    public static void main(String[] args) {  
        //0 1 1 2  
        int a=0,b=1,c,n=10;  
        int i;  
        System.out.print(a+" "+b);  
        for(i=2;i<n;++i)  
        {  
            c=a+b;  
            System.out.print(" "+c);//3  
            a=b; //1  
            b=c; // 2  
        }  
    }  
}
```

Output:-

0 1 1 2 3 5 8 13 21 34

ESTD 2005

2)Pattern1

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

```
public class StarPattern {

    public static void main(String[] args) {

        int i,j,k,l;

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

        for(k=1;k<=5;k++)
        {
            for(l=4;l>=k;l--)
            {
                System.out.print("*");
            }
        }
    }
}
```

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



3)Pattern 2:-

star pattern 2

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

```
public class StartPattern1 {  
    public static void main(String[] args) {  
        for(int i=1;i<=5;i++)  
        {  
            for(int j=4;j>=i;j--)  
            {  
                System.out.print(" ");  
            }  
            for(int k=1;k<=i;k++)  
            {  
                System.out.print("*");  
            }  
            System.out.println("");  
        }  
    }  
}
```

4. Pattern 3:

Star Pattern3

**

*

```
public class StartPattern2 {  
    public static void main(String[] args) {  
        for(int i=1;i<=4;i++)  
        {  
            for(int j=1;j<=i;j++)  
            {  
                System.out.print(" ");  
            }  
            for(int k=4;k>=i;k--)  
            {  
                System.out.print("*");  
            }  
            System.out.println("");  
        }  
    }  
}
```

5. Pattern 4:

Star Pattern 4

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

```
public class StarPattern4 {

    public static void main(String[] args) {
        for(int i=1;i<=5;i++)
        {
            for(int j=4;j>=i;j--)
            {
                System.out.print(" ");
            }
            for(int k=1;k<=i;k++)
            {
                System.out.print("*");
            }
            System.out.println("");
        }

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

```
for(int k=4;k>=i;k--)  
{  
    System.out.print("*");  
}  
System.out.println(" ");  
}  
}
```

