### PATTERN PROGRAMMING

1.Write a program (WAP) to print the alphabet A,B,C,D,E,F,G,H using pattern programming Logic.

```
public class Pattern B
  public static void main(String[] args)
     int n=12;
    for(int i=0; i<n; i++)
     for(int j=0; j<n; j++)
        If (j==0 || i==0 \&\& j < (n-1)/2 || i== n-1 \&\& j < (n-1)/2 || i==(n-1)/2 \&\& j < (n-1)/2 ||
j==(n-1)/2 \&\& i>0 \&\& i<n-1)
        System.out.print("* ");
        else
           System.out.print(" ");
     System.out.println();
public class Pattern C
  public static void main(string[] args)
     int n=12;
     for(int i=0; i<n; i++)
     for(int j=0; j<n; j++)
        If(i==0 && j>0 && j<(n-1)/2 || j==0 && i>0 && i< n-1 || i==n-1 && j>0 &&
j < (n-1)/2
        System.out.print("* ");
        else
           System.out.print(" ");
     System.out.println();
  }
```

```
public class Pattern D
           public static void main(string[] args)
                        int n=12;
                     for(int i=0; i<n; i++)
                       for(int j=0; j<n; j++)
                                    |f(i==0 \& j<(n-1)/2 || j==0 || i== n-1 \&\& j<(n-1)/2 || j==(n-1)/2 \&\& i>0 \&\& i<n-1)|
                                    System.out.print("* ");
                                    else
                                                System.out.print(" ");
                        System.out.println();
           }
public class Pattern E
           public static void main(string[] args)
           {
                        int n=12;
                     for(int i=0; i<n; i++)
                       for(int j=0; j<n; j++)
                                    ||f(j==0)|| ==0 & j < (n-1)/2 || ==n-1 & j < (n-1)/2 || ==(n-1)/2 & j < (n-1)/2 
                                    System.out.print("* ");
                                    else
                                                 System.out.print(" ");
                        System.out.println();
          }
```

```
public class Pattern F
           public static void main(string[] args)
                       int n=12;
                    for(int i=0; i<n; i++)
                      for(int j=0; j<n; j++)
                                   If(j==0 || i==0 && j < (n-1)/2 || i==(n-1)/2 && j < (n-1)/2
                                   System.out.print("* ");
                                   else
                                               System.out.print(" ");
                       System.out.println();
public class Pattern G
            public static void main(string[] args)
                          int n=12;
                    for(int i=0; i<n; i++)
                      for(int j=0; j<n; j++)
                                   ||f(j==0)|| ==0 & ||f(j==0)|| ==(n-1)/2 || || ==(n-1)/2 ||
i==(n-1)/2 \&\& j>(n-1)/2 || j==n-1 \&\& i>(n-1)/2
                                   System.out.print("* ");
                                   else
                                               System.out.print(" ");
                       System.out.println();
           }
```

# 2. Write a program to print triangle using star pattern programming logic.

### 3.WAP to print

#### public class Pattern

### 4. Write a program to print PW SKILLS using pattern programming language.

```
public class Pattern PW SKILLS
   public static void main(string[] args)
     int n=12;
     for(int i=0; i<n; i++)
     for(int j=0; j<n; j++)
        If( j==0 || i==0 && j<(n-1)/2 || j==(n-1)/2 && i>0 && i<(n-1)/2 || i==(n-1)/2 &&
j < (n-1)/2
        System.out.print("* ");
        else
           System.out.print(" ");
System.out.print(" ");
for(int j=0; j<n; j++)
     {
        If(j==0 || j==n-1 || i+j==n-1 && j<(n-1)/2 || i==j && j>(n-1)/2 )
        System.out.print("* ");
        else
           System.out.print(" ");
System.out.print(" ");
for(int j=0; j<n; j++)
        If(i==0 \&\& j<(n-1)/2 \mid\mid i==(n-1)/2 \&\& j<(n-1)/2 \mid\mid i==n-1 \&\& j<(n-1)/2 \mid\mid j==0 \&\&
i<(n-1)/2 \mid j==(n-1)/2 \&\& i>(n-1)/2
        System.out.print("* ");
        else
```

```
{
          System.out.print(" ");
System.out.print(" ");
for(int j=0; j<n; j++)
     {
        If(j==0 || i+j== n-5 || i-j == n-7)
        System.out.print("* ");
        else
          System.out.print(" ");
System.out.print(" ");
for(int j=0; j<n; j++)
     {
        If( i==0 || i==n-1 || j==(n-1)/2)
        System.out.print("* ");
        else
          System.out.print(" ");
System.out.print(" ");
for(int j=0; j<n; j++)
     {
        If(j==0 || i== n-1 \&\& j<(n-1)/2)
        System.out.print("* ");
        else
          System.out.print(" ");
System.out.print(" ");
for(int j=0; j<n; j++)
     {
        If(j==0 || i== n-1 && j<(n-1)/2 )
```

```
{
        System.out.print("* ");
        else
        {
           System.out.print(" ");
        }
     }
System.out.print(" ");
for(int j=0; j<n; j++)
     {
        If(i==0 \ \&\& \ j<(n-1)/2 \ ||\ i==(n-1)/2 \ \&\& \ j<(n-1)/2 \ ||\ i==n-1 \ \&\& \ j<(n-1)/2 \ ||\ j==0 \ \&\&
i<(n-1)/2 || j==(n-1)/2 && i>(n-1)/2
        System.out.print("* ");
        }
        else
        {
           System.out.print(" ");
     }
     System.out.println();
    }
  }
```

## 5. Write a program to print your full name using pattern programming language.

```
public class Pattern RAJAH
  public static void main(String[] args)
  {
     int n=19;
     for(int i=0; i<n; i++)
     for(int j=0; j<n; j++)
        if(j==0 || i==0 \&\& j<(n-1)/2 || j== (n-1)/2 \&\& i>0 \&\& i< (n-1)/2 || i== (n-1)/2 \&\&
j<(n-1)/2 ||i-j|| == n-7
        System.out.print("* ");
        }
        else
           System.out.print(" ");
        }
 System.out.print(" ");
for(int j=0; j<n; j++)
        if(i==0 \&\& j>0 \&\& j< (n-1)/2 || j==0 \&\& i>0 || i==(n-1)/2 \&\& j<=(n-1)/2 || j==
(n-1)/2 && i>0)
        System.out.print("* ");
        else
           System.out.print(" ");
        }
 System.out.print(" ");
for(int j=0; j<n; j++)
     {
        if(i==0 || j==(n-1)/2 || i==n-1 && j<(n-1)/2 || j==0 && i>(n-1)/2)
        System.out.print("* ");
```

```
else
                                                 {
                                                                 System.out.print(" ");
                                                 }
                               }
        System.out.print(" ");
   for(int j=0; j<n; j++)
                               {
                                                if(i==0 \ \&\& \ j>0 \ \&\& \ j<(n-1)/2 \ || \ j==0 \ \&\& \ i>0 \ || \ i==(n-1)/2 \ \&\& \ j<=(n-1)/2 \ || \ j==(n-1)/2 \ || 
(n-1)/2 && i>0)
                                                 {
                                                System.out.print("* ");
                                                 else
                                                                 System.out.print(" ");
                               }
        System.out.print(" ");
  for(int j=0; j<n; j++)
                               {
                                                if(j==0 || j==n-1 || i==(n-1)/2)
                                                 System.out.print("* ");
                                                 }
                                                 else
                                                 {
                                                                 System.out.print(" ");
                                }
                                System.out.println();
              }
```