Pattern programming

Day-9

Assignment Questions
1).WAP to print Alphabets A,B,C,D,E,F,G,H using pattern programming logic.

```
import java.util.Scanner;
public static void main(String[] args) {
    Scanner scan= new Scanner(System.in);
int n=11;
System.out.println("Enter the char input in capital which you want to print from A to
for (int i=0; i < n; i++)
    for (int j=0; j < n; j++)
(n-1)/2||j==(n-1)/2 \&\& i>0)
            System.out.print("*");
            System.out.print(" ");
```

```
if (j==0) | i==0 && j<(n-1)/2 || i==(n-1)/2 && j<(n-1)/2 || i==(n-1) &&
j<(n-1)/2 || j==(n-1)/2 && i!=0 && i != (n-1)/2 && i!=(n-1))
                  System.out.print("*");
                 System.out.print(" ");
                    \text{if } (i == 0 \&\& (j > 0 \&\& j < (n-1)/2) \ || \ j == 0 \&\& \ i > 0 \&\& \ i < (n-1) || \ i == n-1 \&\& \ j > 0 \&\& \ i < (n-1) || \ i == n-1 \&\& \ j > 0 \&\& \ i < (n-1) || \ i == n-1 \&\& \ j > 0 \&\& \ i < (n-1) || \ i == n-1 \&\& \ j > 0 \&\& \ i < (n-1) || 
j < (n-1)/2
                             System.out.print("*");
                             System.out.print(" ");
                  System.out.print("*");
                 System.out.print(" ");
```

```
if (j==0 \mid | i==0 | | i==(n-1)/2 | | i==n-1)
          System.out.print("*");
         System.out.print(" ");
        System.out.print("*");
        System.out.print(" ");
       if (i==0 && (j>0 && j<(n-1)/2) || j==0 && i >0 && i< (n-1)|| i==n-1 && j>0 && i
j<(n-1)/2 || j==(n-1)/2 && i>=(n-1)/2 || j== (n-1)/2 + (n-1)/4 && i >=(n-1)/2 || i==
                   System.out.print("*");
                   System.out.print(" ");
       if (j==0 | | i==(n-1)/2| | j==n-1)
```

```
System.out.print("*");
}
else
{
    System.out.print(" ");
}
break;

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

2).WAP to print triangle using star pattern programming logic.

```
}
}
```

3).WAP to print

```
public static void main(String[] args) {
        for (int j=0; j< n; j++)
                System.out.print("*");
                System.out.print(" ");
        System.out.println("");
```

4).WAP to print PW skills using pattern program logic.

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

```
System.out.print("*");
        System.out.print(" ");
System.out.print( " ");
for (int j=0;j<n;j++)</pre>
    if (j==0|| i+j==(n-1)/2 || i-j==(n-1)/2)
        System.out.print("*");
        System.out.print(" ");
System.out.print(" ");
for (int j=0; j < n; j++)
    if (j==(n-1)/2)
       System.out.print(" ");
for (int j=0;j<n;j++)</pre>
    if (j==0||i==(n-1)|
        System.out.print("*");
```

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

5). Write a program to print your full name using pattern program logic?

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

```
System.out.print(" ");
System.out.print(" ");
for (int j=0; j< n; j++)
   if (j==0||j==(n-1)|||i==j|)
       System.out.print("*");
       System.out.print(" ");
System.out.print(" ");
for (int j=0; j< n; j++)
    if (j==0|| i+j==(n-1)/2 || i-j==(n-1)/2)
       System.out.print("*");
        System.out.print(" ");
System.out.print(" ");
for (int j=0; j < n; j++)
       System.out.print("*");
       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)|| i==n-1 && j>0 |
&& j < (n-1)/2 \mid j == (n-1)/2 && i >= (n-1)/2 \mid j == (n-1)/2 \mid j
 ((n-1)/2+(n-1)/4))
                                                                                      System.out.print("*");
                                                                                      System.out.print(" ");
                                           System.out.print(" ");
                                           for (int j=0; j<n; j++)
                                                                 if (i-j==(n-1)/2||i==0&& j<(n-1)/2|| j==0||i==(n-1)/2&&j<(n-1)/2||
j==(n-1)/2 \&\& i>0\&\&i<(n-1)/2
                                                                                      System.out.print("*");
                                                                                      System.out.print(" ");
                                           System.out.print(" ");
                                           for (int j=0;j<n;j++)</pre>
 (n-1)/2||j==(n-1)/2 && i>0
                                                                                      System.out.print("*");
                                                                                        System.out.print(" ");
```

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

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

* *			
* *			
* *	** *		
*		*********PS C:\java>	