1. Write a program to print Alphabet A, B, C, D, E, F, G, H using pattern programming logic

```java
public class PatternsOfABCDEFGH{
    public static void main(String[] args) {
        int n = 10;
        for(int i = 0; i < n; i++){
            for(int j = 0; j < n; j++){
                if(i == 0 &&  j > 0 && j < n/2 || j == 0 && i > 0 || j == n/2 && i > 0 ||
i == n/2 && j < n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("    ");
            for(int j = 0; j < n; j++){
                if(i == 0 && j < n/2 || j == 0 || j == n/2 && i < n/2 && i > 0 || i == n/2
&& j < n/2 || j == n/2 && i > n/2 && i < n-1 || i == n-1 && j < n/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/2 || j == 0 && i > 0 && i < n-1|| i == n-1 &&
j < n/2 && j > 0){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("    ");
            for(int j = 0; j < n; j++){
                if(j == 0 || i == 0 && j < n/2 || j == n/2 && i < n-1 && i > 0 || i == n-1
&& j < n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("    ");
            for(int j = 0; j < n; j++){
                if(i == 0 && j < n/2 || j == 0 || i == n/2 && j < n/2 || i == n-1 && j <
n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("    ");
            for(int j = 0; j < n; j++){
                if(i == 0 && j < n/2 || j == 0 || i == n/2 && j < n/2 - 1){
                    System.out.print("* ");
```

```java
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("    ");
            for(int j = 0; j < n; j++){
                if(j == 0 && i > 0 && i < n-1 || i == 0 && j > 0 && j < n/2 || i == n-1 &&
j > 0 && j < n/2 || j == n/2 && i > n/2 && i < n-1
                || i == n/2 && j > n/3 && j < n/2 + n/3){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("    ");
            for(int j = 0; j < n; j++){
                if(j == 0 || j == n/2 || i == n/2 && j < n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.println();
        }

    }
}
```

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

```java
public class Trianle {
    public static void main(String[] args) {
        int n = 10;
        for(int i = 0; i < n; i++){
            for(int j = 0; j < n; j++){
                if(j < i+1){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }

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

```
}
```

3. WAP to print

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

```java
public class WAP1 {
    public static void main(String[] args) {
        int n = 19;
        for(int i = 0; i < n; i++){
            for(int j = 0; j < n; j++){
                if(i == 0 || j == 0 || i == n-1 || j == n-1 || i + j <= n/2 || j -i >=
n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.println();
        }
    }
}
```

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

```java
public class PWSKILLS {
    public static void main(String[] args) {
        int n = 18;
        for(int i = 0; i < n; i++){
            for(int j = 0; j <= n/2; j++){
                if(j == 0 || i == 0 && j > 0 && j < n/2 || j == n/2 && i > 0 && i < n/2 ||
i == n/2 && j < n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
        }
```

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

```java
            }else{
                System.out.print("  ");
            }
        }
        System.out.println();
    }
}
```

5. Write a program to print your Full Name using pattern programming logic

```java
public class MDMNNA {
    public static void main(String[] args) {
        int n = 11;
        for(int i = 0; i < n; i++){
            for(int j = 0; j < n; j++){
                if(j == 0 || i == j && i < n/2 || j == n-1 || i + j == n-1 && i <= n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("  ");
            for(int j = 0; j <= n/2; j++){
                if(j == 0 || i == 0 && j < n/2 || j == n/2 && i < n-1 && i > 0 || i == n-1
&& j < n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("      ");
            for(int j = 0; j < n; j++){
                if(j == 0 || i == j && i < n/2 || j == n-1 || i + j == n-1 && i <= n/2){
                    System.out.print("* ");
                }else{
                    System.out.print("  ");
                }
            }
            System.out.print("  ");
            for(int j = 0; j <= n/2; j++){
                if(j == 0 && i < n-1 || i == n-1 && j < n/2 && j > 0 || j == n/2 && i < n-
1){
                    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){
                    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){
                System.out.print("* ");
            }else{
                System.out.print("  ");
            }
        }
        System.out.print("  ");
        for(int j = 0; j < n; j++){
            if(i == 0 &&  j > 0 && j < n/2 || j == 0 && i > 0 || j == n/2 && i > 0 ||
i == n/2 && j < n/2){
                System.out.print("* ");
            }else{
                System.out.print("  ");
            }
        }
        System.out.println();
    }
    }
}
```