# **Assignment – 7<sup>th</sup> (Pattern Programming)**

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

Ans: - Pattern of A:

#### Pattern of B:

Pattern of C:

Pattern of D:

Pattern of E:

### Pattern of F:

#### Pattern of G:

#### Pattern of **H**:

#### **OUTPUT OF ALL PATTERNS**

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

Ans: - Pattern of Triangles:

# OUTPUT

### 3. Write a Program to print.

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#### Ans: - Pattern:

### **OUTPUT**

### 4. Write a Program to print PW SKILLS using star pattern programming logic.

Ans: - Pattern of PW SKILLS:

```
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)</pre>
           System.out.print("* ");
     else{
          System.out.print(" ");
}
System.out.print("* ");
     else{
           System.out.print(" ");
System.out.print("
                                   ");
for(int j=0; j<n; j++){
   if(j==0 && i<(n-1)/2 && i>0
   || i==0 && j<=(n-1)/2 && j>0
   || i==(n-1)/2 && j<(n-1)/2 && j>0
   || j==(n-1)/2 && i>(n-1)/2 && i<n-1
   || i==(n-1) && j<(n-1)/2)</pre>
          System.out.print("* ");
     else{
         System.out.print(" ");
}
for(int j=0; j<n; j++){
   if(j==0 | | i+j==(n-1)/2</pre>
      || i-j==(n-1)/2|
           System.out.print("* ");
     else{
          System.out.print(" ");
System.out.print("* ");
     else{
          System.out.print(" ");
}
for(int j=0; j<n; j++){
   if(j==0 || i==(n-1) && j<(n-1)/1.5)</pre>
           System.out.print("* ");
     else{
```

```
System.out.print(" ");
                   }
             }
             for(int j=0; j<n; j++){
   if(j==0 || i==(n-1) && j<(n-1)/1.5)</pre>
                         System.out.print("* ");
                   else{
                         System.out.print(" ");
                   }
             }
             for(int j=0; j<n; j++){
    if(j==0 && i<(n-1)/2 && i>0
                       i=0 && j<=(n-1)/2 && j>0

i==(n-1)/2 && j<(n-1)/2 && j>0

j==(n-1)/2 && i>(n-1)/2 && i<n-1
                       i = (n-1)' \& j < (n-1)/2
                         System.out.print("* ");
                   else{
                         System.out.print(" ");
                   }
             }
             System.out.println();
       }
}
```

#### **OUTPUT**

# 5. Write a Program to print your Full Name using star pattern programming logic.

Ans: - Pattern of My Name (RAHUL KUMAR):

```
else{
              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(" ");
          }
   }
   for(int j=0; j<n; j++){
   if(j==0 || i==(n-1)/2 && j<(n-1)/2</pre>
           || j==(n-1)/2){
                 System.out.print("* ");
          else{
               System.out.print(" ");
   }
   for(int j=0; j<n; j++){
  if(j==0 && i<(n-1)
  || i==(n-1) && j<(n-1)/2 && j>0
  || j==(n-1)/2 && i<(n-1))</pre>
              System.out.print("* ");
       else{
             System.out.print(" ");
}
for(int j=0; j<n; j++){
    if(j==0 || i==(n-1) && j<(n-1)/1.5){
        System.out.print("* ");</pre>
          else{
                 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("* ");</pre>
          else{
                 System.out.print(" ");
   }
   for(int j=0; j<n; j++){
  if(j==0 && i<(n-1)
  || i==(n-1) && j<(n-1)/2 && j>0
  || j==(n-1)/2 && i<(n-1))</pre>
              System.out.print("* ");
              System.out.print(" ");
```

```
}
                  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</pre>
                        j==(n-1)/2 && i>0) {
    System.out.print("* ");
                        else{
                            System.out.print(" ");
                  }
                  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-1)/2)</pre>
                           System.out.print("* ");
                      else{
                           System.out.print(" ");
                System.out.println();
          }
     }
}
```

### **OUTPUT**