Simple Nested For Loop 3

Q1

write a program to print the following pattern

C2W
C2W   C2W
C2W   C2W   C2W
C2W   C2W   C2W   C2W

USE THIS FOR LOOP STRICTLY for the outer loop

int row=4;
for(int i =1;i<=row;i++){

}

Solution 1:

```
class Solution1{

        public static void main(String[] args){

                int rows=4;
                for(int i=1;i<=rows;i++){

                        for(int j=1;j<=i;j++){

                                System.out.print("C2W  ");
                        }

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

Q2

write a program to print the following pattern

1
2   3
4   5   6
7   8   9   10

USE THIS FOR LOOP STRICTLY for the outer loop

int row=4;
for(int i =1;i<=row;i++){

}

Solution 2:

```
class Solution2{

    public static void main(String[] args){

        int rows=4;
        int num=1;

        for(int i=1;i<=rows;i++){

            for(int j=1;j<=i;j++){

                System.out.print(num +" ");
                num=num+1;
            }

            System.out.println();

        }
    }
}
```

write a program to print the following pattern

```
10
9    8
7    6    5
4    3    2    1
```


USE THIS FOR LOOP STRICTLY for the outer loop
int row=4;
int num=row*(row+1)/2;
for(int i =1;i<=row;i++){

}

Hint: We have to decrement the num after every ROW

Solution 3:

```java
class Solution3{

       public static void main(String[] args){

               int row=4;
               int num=10;

               for(int i=1;i<=row;i++){

                       for(int j=1;j<=i;j++){

                               System.out.print(num +" ");
                               num=num-1;
                       }

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

Another Solution 3:

```java
class Solution3{

       public static void main(String[] args){

               int row=4;
               int num=row*(row+1)/2;

               for(int i=1;i<=row;i++){

                       for(int j=1;j<=i;j++){

                               System.out.print(num +" ");
                               num--;
                       }

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

}

write a program to print the following pattern

3C   3C   3C   3C
3C   3C   3C
3C   3C
3C

USE THIS FOR LOOP STRICTLY for the outer loop

for(int i =1;i<=4;i++){

}

Solution 4:

```
class Solution4{

        public static void main(String[] args){

                for(int i=1;i<=4;i++){

                        for(int j=i;j<=4;j++){

                                System.out.print("3C  ");
                        }

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

write a program to print the following pattern

10   10   10   10
11   11   11
12   12
13

USE THIS FOR LOOP STRICTLY for the outer loop

for(int i =1;i<=4;i++){

}

Solution 5:

```
class Solution5{

        public static void main(String[] args){

                int row=4;
                int num=10;
                for(int i=1;i<=row;i++){

                        for(int j=i;j<=4;j++){

                                System.out.print(num + " ");

                        }
                        num=num++;
                        System.out.println();
                }
        }
}
```

Q6

write a program to print the following pattern

```
9
9       8
9       8       7
9       8       7       6
```

USE THIS FOR LOOP STRICTLY for the outer loop

for(int i =1;i<=4;i++){

}

Solution 6:

```
class Solution6{

        public static void main(String[] args){

                int rows=4;

                for(int i=1;i<=rows;i++){
                        int num=9;
```

```
                        for(int j=1;j<=i;j++){


                                System.out.print(num + " ");
                                num=num-1;
                        }

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

write a program to print the following pattern

```
F
E       F
D       E       F
C       D       E       F
B       C       D       E       F
A       B       C       D       E       F
```

USE THIS FOR LOOP STRICTLY for the outer loop
int row =6;
for(int i =1;i<=row;i++){

}

Solution 7:

```
class Solution7{

        public static void main(String[] args){

                int rows=6;
                char ch='F';

                for(int i=1;i<=rows;i++){

                        char ch1=ch;
                        for(int j=1;j<=i;j++){


                                System.out.print(ch1 + " ");
                                ch1++;

                        }
```

```
                ch--;
                System.out.println();
            }
        }
}
```

Solution 7: (using typecast)

```
class Solution7{

    public static void main(String[] args){

        int rows=6;

        for(int i=1;i<=rows;i++){

            int ch=65+rows-i;
            for(int j=1;j<=i;j++){


                System.out.print((char)ch + " ");
                ch++;

            }

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

write a program to print the following pattern

```
    J
    I       H
    G       F       E
    D       C       B       A
```

USE THIS FOR LOOP STRICTLY for the outer loop
int row =4;
for(int i =1;i<=row;i++){

}

Solution 8:

```java
class Solution8{

    public static void main(String[] args){

        int rows=4;
        char ch='J';

        for(int i=1;i<=rows;i++){

            for(int j=1;j<=i;j++){

                System.out.print(ch + " ");
                ch--;

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

Q9

write a program to print the following pattern

```
1
8       27
64      125     216
```

USE THIS FOR LOOP STRICTLY for the outer loop
int row =3;
for(int i =1;i<=row;i++){

}

Solution 9:

```java
class Solution9{

    public static void main(String[] args){

        int rows=3;
        int x=1;

        for(int i=1;i<=rows;i++){
```

```
                    for(int j=1;j<=i;j++){

                            System.out.print(x*x*x + " ");
                            x++;

                    }

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

Q10

write a program to print the following pattern

1   2   3   4
4   5   6
6   7
7

USE THIS FOR LOOP STRICTLY

for(int i =1;i<=4;i++){

}

Solution 10:

```
class Solution10{

        public static void main(String[] args){

                int rows=4;
                int x=1;
                for(int i=1;i<=rows;i++){


                        for(int j=i;j<=rows;j++){

                                System.out.print(x +" ");
                                x++;

                        }
```

```java
                x--;
                System.out.println();
            }
        }
    }
}
```