ASSIGNMENT-5

1. Write a program to print the pattern given below

```
3*2
 4*5*6
 10*9*8*7
 11*12*13*14*15
CODE:
public class Main{
static void printPattern(int n)
{
int j, k = 0;
for (int i = 1; i <= n; i++) {
if (i % 2 != 0) {
for (j = k + 1; j < k + i; j++)
System.out.print(j + "*");
System.out.println(j++);
```

1

```
k = j;
}
else {
k = k + i - 1;
for (j = k; j > k - i + 1; j--)
System.out.print(j + "*");
System.out.println(j);
}
}
}
public static void main(String args[])
{
int n = 5;
printPattern(n);
}
}
```

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2. Write a program to find the sum of the series

$$1 + (1+3) + (1+3+5) + (1+3+5+7) + \dots + (1+3+5+7+\dots + (2n-1))$$

CODE;

```
import java.util.*;
class Main {
  static int sumOfTheSeries(int n)
  {
  int sum = 0;
  for (int i = 1; i <= n; i++)
  {
  int k = 1;</pre>
```

```
for (int j = 1; j <= i; j++)
sum += k;
k += 2;
}
return sum;
}
public static void main(String[] args)
int n = 5;
System.out.println("Sum = " +sumOfTheSeries(n));
}
ONLINE COMPILER;
```

```
Mainjarn

1 import java.util.*;
2 class Main {
3 static int sumOffheSeries(int n)
4 - {
5 int sum = 0;
6 for (int i = 1; i <= n; i++)
7 - {
8 int k = 1;
9 for (int j = 1; j <= i; j++)
10 - {
11 sum = k;
12 k += 2;
13 }
14 }
15 return sum;
16 }
17 public static void main(string[] args)
18 - {
19 int n = 5;
20 System.out.println("Sum = " *sumOfTheSeries(n));
21 }
22 }
23 } |
```

THANK YOU