## C++ Assignments | Pattern Printing - 1 | Week 3

```
**Print the following pattern
  2222
  3333
  4444
  #include<iostream>
  using namespace std;
  int main() {
      int n;
      cin>>n;
  for (int i = 1; i <= n ; i++) {
      for (int j = 1; j \le n; j++) {
           cout<<i<" ";
       }
      cout<<endl;
```

## <sup>2</sup>-Print the following pattern

```
Input: n = 4
Output:
1234
123
12
1
#include<iostream>
using namespace std;
```

```
int main() {
    int n;
    cin>n;

for (int i = 1; i <= n ; i++) {
    for (int j = 1 ; j <= n-i+1; j++)
    {
        cout<<j<<" ";
    }
    cout<<endl;
}</pre>
```

## 3-Print the following pattern

```
Input: n = 4
Output:
A
AB
ABC
ABCD
#include<iostream>
using namespace std;
int main() {
   int n;
   cin>>n;
for (int i = 1; i <= n ; i++) {</pre>
```

```
for (int j = 1 ; j <=i ; j++) {
      cout << char (j+64) << " ";
    }
    cout << endl;
}</pre>
```

4. Print the following pattern

```
Input: n = 4
Output:

1
AB
123
ABCD
12345
```

```
#include<iostream>
using namespace std;

int main() {
    int n;
    cin>>n;

for (int i = 1; i <= n ; i++) {
    for (int j = 1 ; j <=i ; j++) {
        if (i%2==0) cout<<char(j+64)<<" ";
        else cout<<j<<" ";
    }
    cout<<endl;</pre>
```

```
}
}
```

```
<sup>5</sup>-Print the following pattern
  Input n = 4
  Output:
     #include<iostream>
     using namespace std;
     int main() {
     int n;
     cout<<"enter value of n ";</pre>
     cin>>n;
     for (int i = 0; i <= n ; i++) {
          for (int j = 0 ; j <=i-1 ; j++) {
             cout<<"*";
          cout<<end1;
        }
       for (int i = 1; i <= n ; i++) {
          for (int j = 0 ; j <=n-i-1 ; j++) {
             cout<<"*";
```

```
}
cout<<endl;
}</pre>
```

```
6.Print the following pattern
```

```
Sample Input : m = 4, n = 6

Sample Output :

******

* *

* *

*******
```

```
#include<iostream>
using namespace std;

int main() {
   int m;
   cout<<"enter value of rows ";
   cin>>m;
   int n;
   cout<<"enter value of column ";
   cin>>n;

for (int i = 1; i <= m ; i++) {
      for (int j = 1 ; j <=n ; j++) {
        if (i==1 || i==m || j==1 || j==n) cout<<"* ";
        else cout<<" ";
    }
   cout<<endl;</pre>
```

```
7.Print the following pattern
Sample Input : n = 4
Output:
   ****
 ****
****
#include<iostream>
using namespace std;
int main() {
int n;
cout<<"enter value of n ";</pre>
cin>>n;
for (int i = 1; i <= n ; i++) {
    for (int j = 1 ; j \le n-i ; j++) {
          cout<<" ";
    }
    for (int j = 1 ; j <=n ; j++) {</pre>
          cout<<"*";
    }
    cout<<endl;</pre>
  }
```

}

```
8,Print the following pattern
Sample Input : n= 4
Output:
   1
  12
 123
1234
#include<iostream>
using namespace std;
int main() {
int n;
cout<<"enter value of n ";</pre>
cin>>n;
for (int i = 1; i <= n ; i++) {
    for (int j = 1 ; j <=n-i ; j++) {
          cout<<" ";
    }
    for (int j = 1 ; j <=i ; j++) {
          cout<<j;
    }
    cout<<endl;</pre>
```

9.Print the following pattern

Input: n = 4

Output:

```
Α
  ΑВ
 ABC
ABCD
#include<iostream>
using namespace std;
int main() {
int n;
cout<<"enter value of n ";</pre>
cin>>n;
for (int i = 1; i <= n ; i++) {
    for (int j = 1 ; j <=n-i ; j++) {
         cout<<" ";
    }
    for (int j = 1 ; j <=i ; j++){
        cout<<char(j+64);</pre>
    }
    cout<<endl;</pre>
```

```
10.Print the following pattern
```

```
Input: n = 4
Output:
1
2 1
3 2 1
4 3 2 1
#include<iostream>
```

```
using namespace std;
int main() {
int n;
cout<<"enter value of n ";</pre>
cin>>n;
for (int i = 1; i <= n ; i++) {
    for (int j = i ; j >=1 ; j--){
         cout<<j;
    }
    cout<<endl;</pre>
11.Print the following pattern
Input: n = 4
Output:
***
#include<iostream>
using namespace std;
int main() {
```

int n;

```
cout<<"enter value of n ";</pre>
cin>>n;
for (int i = 1; i <= n ; i++) {
   for (int j = 1 ; j <=n-i ; j++) {
       cout<<" ";
   }
   for (int j = 1 ; j <=i ; j++) {
        cout<<"* ";
   }
   cout<<endl;</pre>
 for (int i = 1; i <= n ; i++) {
   for (int j = 1 ; j <=i ; j++) {
       cout<<" ";
   for (int j = 1 ; j <=n-i ; j++) {
        cout<<"* ";
   }
   cout<<endl;
```