

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

```
1 print the following pattern
1 1 1 1
2 2 2 2
3 3 3 3
4 4 4 4
Ans
# 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++) {
cout<<" i" << " "<<endl;
}
    2 Print the following pattern
Input: n = 4
Output
   1 2 3 4
   1 2 3
   1 2
   1
Ans
```

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 "<<" "<<endl;
}
}
     3 Print the following pattern
Input: n = 4
Output
   Α
   АВ
   A B C
   ABCD
# 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++) {
cout<<(char) ('A'+j-1) <<" "<<endl;
}
}
     4 Print the following pattern
   Input: n = 4
    Output:
   1
   ΑВ
```

```
1 2 3
ABCD
1 2 3 4 5
Ans
# include <iostream>
using namespace std;
int main () {
int n;
cin >> n;
for (int i=1; i<=n; i++) {
if(i%==0);
for (int j=1; j<=i; j++) {
 cout<<j</" "<<endl;
}
else
for (int j=1; j<=i; j++) {
cout<<(char)('A'-j+1) <<" "<< endl;
}
}
    5 Print the following pattern
  Input n = 4 Output
Ans
# include <iostream>
using namespace std;
int main () {
int n;
cin>> n;
for (int i=0; i<=n; i++) {
for (int j=1; j<=i;j++) {
   cout<<" * "<<endl;
}
}
```

```
for (int i=0; i<= n-#1; i++) {
for (int j=0 ; j<= n-i-1; j++) {
cout<<" *"<< endl;
}
    6 Print the following pattern
Sample Input : m = 4, n = 6
Sample Output :
Ans
# include <iostream>
using namespace std;
int main () {
int n, m;
cin>>n>>m;
for (int i=0; i<=n; i++){
for (int j=0; j<=m; j++){
if (i==0; || j==0; || i==n-1 || j==m) {
cout<< "*"<< endl;
else
cout<<" "<<endl;
}
}
    7 Print the following pattern
Sample Input : n = 4
Output :
Ans
```

```
# include <iostream>
using namespace std;
int main () {
int n;
cin>>n;
for (int i=0; i<=n; i++) {
for (int j=0; j<n-i-1; j++) {
cout<<" "<< endl;
}
}
for (int j=0; j<n; j++) {
cout<<"*"<<endl;
}
    8 Print the following pattern
Input: n = 4
Output:
          A
       A B
     A B C
   ABCD
Ans
# include <iostream>
using namespace std;
int main () {
int n;
cin>>n;
for (int i=0; i<=n; i++) {
for (int j=0; j<n-i-1; j++) {
cout<<" "<<endl;
for (int j=0; j<i+1; j++) {</pre>
cout<< (char) ('A'+i-1) <<" "<<endl;
}
```

9 Print the following pattern

```
Sample Input : n=4
Output
1
12
123
1234
Ans
# include <iostream>
using namespace std;
int main () {
int n;
cin>>n;
for (int i=0; i<=n; i++) {
for (int j=0; j<n-i-1; j++) {
cout<<" "<<endl;</pre>
}
for (int j=0; j<i+1; j++) {</pre>
cout<< j<<" "<<endl;
}
}
    10 Print the following pattern
input: n = 4
Output:
1
21
321
4321
Ans
# include <iostream>
using namespace std;
int n;
cin >>n;
for (int i=0 ; i<=n; i++) \{
for(int j =0; j<n-1-1; j++){
cout<<" "<<endl;
```

```
}
}
for(int j =i+1; j>= 1; j--){
cout<<" "<<endl;
}
}
    11 Print the following pattern
   Input n = 4 Output
Ans
# include <iostream>
using namespace std;
int main () {
int n;
cin>> n;
for (int i=0; i<=n; i++) {
for (int j=1; j<=i;j++) {
    cout<<" * "<<endl;
}
}
for (int i=0; i<= n-#1; i++) {
for (int j=0 ; j<= n-i-1; j++) {
cout<<" *"<< endl;
}
}
```