Pattern Printing – 1

```
Q1. Print the following pattern
```

```
1111
2222
3333
4444
```

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number : " << endl;
    cin >> n;
    for (int i = 1; i <= n; i++)
    {
        cout << i;
        }
        cout << endl;
}
</pre>
```

```
PS C:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PRACTICE c++with DSA>

cd "c:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PRACTICE c++with DSA\"; if ($?) { g++ assig
nmentprint2.cpp -o assignmentprint2 }; if ($?) { .\assignmentprint2 }

Enter a number :

4

1111

2222

3333

4444
```

```
Q2. Print the following pattern
Input: n = 4
Output:
1234
123
```

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number : ";
    cin >> n;
    for (int i = 1; i <= n; i++)
    {
        for (int j = 1; j <= n - i + 1; j++)
        {
            cout << j;
        }
        cout << endl;
    }
}</pre>
```

```
PS C:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PRACTICE c++with DSA> cd "c:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PRACTICE c++with DSA\"; if ($?) { g++ assignmentprint2.cpp -o assignmentprint2 }; if ($?) { .\assignmentprint2 }
Enter a number : 4
1234
123
12
```

```
Q3. Print the following pattern
Input: n = 4
Output:
A
AB
ABC
ABCD
```

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number : ";
    cin >> n;
    for (int i = 1; i <= n; i++)
    {
        for (int j = 65; j <= i + 64; j++)
        {
            cout << char(j);
        }
        cout << endl;
    }
}</pre>
```

```
PS C:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PRAC

ve\Desktop\C++WITH DSA\PRACTICE c++with DSA\"; if
gnmentprint2 }; if ($?) { .\assignmentprint2 }

Enter a number : 4

A

AB

ABC

ABCD
```

```
Q4. Print the following pattern
Input: n = 4
Output:
1
AB
123
ABCD
12345
```

```
#include<iostream>
using namespace std;
int main(){
    int n;
    cout<<"Enter a number : ";
    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<<;;
        }
        cout<<endl;
    }
}</pre>
```

```
PS C:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PR
ve\Desktop\C++WITH DSA\PRACTICE c++with DSA\";
gnmentprint2 }; if ($?) { .\assignmentprint2 }
Enter a number : 4
1
AB
123
ABCD
```

```
Input n = 4
Output:

*

**

***

***

Q5. Print the following pattern

*
```

```
#include<iostream>
using namespace std;
int main(){
    int n;
    cout<<"Enter a number : "<<endl;
    cin>>n;
    for(int i=1;i<=n;i++){
        for(int j=1;j<=i;j++) {cout<<"*";}
        cout<<endl;
    }
    for(int i=1;i<=n-1;i++){
        for(int j=1;j<=n-i;j++) {cout<<"*";}
        cout<<endl;
    }
}</pre>
```

Q6. Print the following pattern

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

```
#include<iostream>
using namespace std;
int main(){
    int m,n;
    cout<<"Enter m : ";</pre>
    cin>>m;
    cout<<"Enter n : ";</pre>
    cin>>n;
    int t=m/2;
    int a=n;
    int p;
    for(int i=1;i<=t;i++){</pre>
      for(int j=1;j<=a;j++) cout<<"*";</pre>
       if(i==t){p=a;}
         a=a-m;
       cout<<endl;</pre>
    for(int i=1;i<=t;i++){</pre>
       for(int j=1;j<=p;j++){</pre>
         cout<<"*";
         p=p+m;
       cout<<endl;</pre>
    }
```

Q7. Print the following pattern

```
Sample Input : n = 4
Output :
****
****
****
```

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number : ";
    cin >> n;
    for (int i = 1; i <= n; i++)
    {
        for (int j = 1; j <= n; j++)
        {
            cout << "*";
        }
        cout << endl;
    }
}</pre>
```

```
Q8. Print the following pattern
```

```
Sample Input : n= 4
Output :
1
12
123
1234
```

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number " << endl;
    cin >> n;
    for (int i = 1; i <= n; i++)
    {
        for (int j = 1; j <= i; j++)
        {
            cout << j;
        }
        cout << endl;
    }
}</pre>
```

```
PS C:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PRA\
ve\Desktop\C++WITH DSA\PRACTICE c++with DSA\";
gnmentprint2 }; if ($?) { .\assignmentprint2 }
Enter a number
4
1
12
123
1234
```

```
Q9. Print the following pattern
Input: n = 4
Output:
A
AB
ABC
ABCD
```

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number " << endl;
    cin >> n;
    for (int i = 1; i <= n; i++)
    {
        for (int j = 1; j <= i; j++)
        {
            cout << char(j + 64);
        }
        cout << endl;
    }
    return 0;
}</pre>
```

```
PS C:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PRA

ve\Desktop\C++WITH DSA\PRACTICE c++with DSA\";
gnmentprint2 }; if ($?) { .\assignmentprint2 }

Enter a number

4

A

AB

ABC

ABCD
```

```
Q10. Print the following pattern
Input: n = 4
Output:
1
21
3 21
```

4321

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number : ";
    cin >> n;
    for (int i = 1; i <= n; i++)
    {
        for (int j = i; j > 0; j--)
        {
            cout << j;
        }
        cout << endl;
    }
}</pre>
```

```
PS C:\Users\ITC\OneDrive\Desktop\C++WITH DSA\PRAVe\Desktop\C++WITH DSA\PRACTICE c++with DSA\";
gnmentprint2 }; if ($?) { .\assignmentprint2 }
Enter a number : 4
1
21
321
4321
```

Q11. Print the following pattern

```
Input: n = 4
Output:

*

**

***

***

***

***
```

```
#include<iostream>
using namespace std;
int main(){
    int n;
    cout<<"Enter a number : ";</pre>
    cin>>n;
    for(int i=1;i<=2*n-1;i++){
         if(i <= n){
             for(int j=1;j<=i;j++){</pre>
                  cout<<"*";
             }
         }
         else {
             int t=i-n;
             for(int j=1;j < =n-t;j++){
                  cout<<"*";
             }
         cout<<endl;</pre>
```