C++ ASSIGNMENT 1.3

```
WAP to print following kind of patterns:
1) *
    *****
#include<iostream>
using namespace std;
int main()
{
    int a;
   cout<<"Enter the number of rows to print the character
                                                              \t";
    cin>>a;
   for(int i=0;i<a;i++)
       for(int j=0;j<=i;j++)
       {
           cout<<"*";
        }
       cout<<endl;
    }
   return 0;
}
```

```
input
   Enter the number of rows to print the character
   ...Program finished with exit code 0
Press ENTER to exit console.
2)
       **
     ***
   ****
*****
#include<iostream>
using namespace std;
int main()
{
     int a;
     cout<<"Enter the number of rows to print the character
                                                                        \t";
     cin>>a;
     for(int i=0;i<a;i++)
     {
          for(int k=a-1;k>i;k--)
           cout<<" ";
          for(int j=0;j<=i;j++)
          {
          cout<<"*";
           }
```

```
cout<<endl;
}
return 0;
}
Enter the number of rows to print the character 5</pre>
```

```
Enter the number of rows to print the character

**

***

***

***

****

...Program finished with exit code 0

Press ENTER to exit console.
```

```
3) *
***
***
****

*****

#include<iostream>
using namespace std;
int main()
{
int a,j,i;
cout<<"Enter the number of rows to get the pattern";
cin>>a;

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

```
for(int j=1;j<=a-i;j++)
    {
        cout<<" ";
    }
    for(int b=1; b<=(2*i-1); b++)
    {
    cout<<"*";
    cout<<endl;
}
return 0;
}
  Enter the number of rows to get the pattern12
  ...Program finished with exit code 0
  Press ENTER to exit console.
```

```
4)
        *****
        ****
#include <iostream>
using namespace std;
int a,b,c,d,e;
int main(){
          cout<<("Enter any number ");</pre>
          int n;
                cin>>n;
                int counter=1;
                for (int i=0;i<n;i++) {
                         if(i==0) {
                                 for(int j=0;j<n*2-1;j++) {
                                 cout<<"*";
                                 }
                                 cout<<endl;
                         }else {
                                 for(int j=0;j<n-counter;j++) {</pre>
                                 cout<<"*";
                                 }
                                 for(int j=counter*2-1;j>0;j--) {
                                         cout<<" ";
                                         }
                                 for(int j=0;j<n-counter;j++) {</pre>
```

```
cout<<"*";
}
counter++;
cout<<endl;
}
</pre>
```

```
Enter any number 5

********

*** ***

** **

...Program finished with exit code 0

Press ENTER to exit console.
```

```
5.
#include<iostream>
using namespace std;
int main()
{
    char n=68;
    for(int i=0; i<=4;i++)
{</pre>
```

```
for(char j=65;j<=n;j++)
{
  cout<<j;
}n--;

cout<<endl;
}
return 0;
}

ABCD
ABC
AB
A

...Program finished with exit code 0
Press ENTER to exit console.</pre>
```

```
6) 1
12
123
1234
12345
123456
#include<iostream>
using namespace std;
int main()
{
```

```
int n;
  cout<< "enter no of rows"<<endl;
  cin>>n;
  for(int i=1;i<=n;i++)
  {
    for(int j=1;j<=i;j++)
    {
      cout<<j;
    }
    cout<<endl;
}</pre>
```

```
enter no of rows

12

1

12

123

1234

12345

123456

1234567

12345678

123456789

12345678910

1234567891011

12345678910112

...Program finished with exit code 0

Press ENTER to exit console.
```

```
#include <iostream>
using namespace std;
int main() {
     cout << "Enter any number: ";</pre>
     int n;
     cin >> n;
     int counter = 1;
     for (int i = 0; i < n; i++) {
           for (int j = 0; j \le n - counter; j++) {
                 cout << char('A' + j);
           }
           for (int j = i * 2 - 1; j > 0; j--) {
                if (i != 0) {
                      cout << " ";
                }
           }
           for (int j = n - counter; j \ge 0; j--) {
                 if (j != n - 1) {
                      cout << char('A' + j);
                }
           }
```

```
counter++;
cout << endl;
}
return 0;
}</pre>
```

```
Enter any number: 12
ABCDEFGHIJKLKJIHGFEDCBA
ABCDEFGHIJK KJIHGFEDCBA
ABCDEFGHIJ JIHGFEDCBA
ABCDEFGHI
             IHGFEDCBA
ABCDEFGH
              HGFEDCBA
ABCDEFG
               GFEDCBA
ABCDEF
                 FEDCBA
ABCDE
                  EDCBA
ABCD
                  DCBA
ABC
                   CBA
AB
                     BA
A
                      Α
...Program finished with exit code 0
Press ENTER to exit console.
```