ASSIGNMENT 1.3

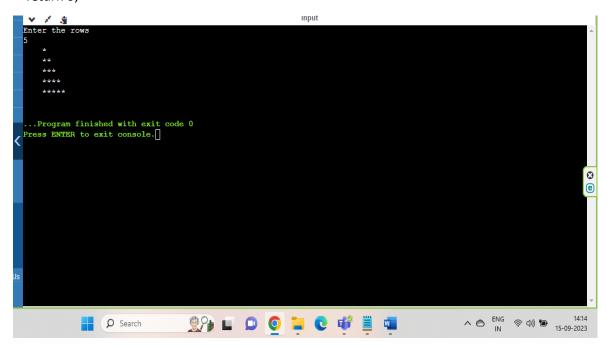
WAP to print following kind of patterns:

PATTERN-1

```
#include <iostream>
using namespace std;
int main()
  int n;
  cout<<"Enter the rows"<<endl;</pre>
  cin>>n;
  for(int i=1;i<=n;i++)
     for(int j=1;j<=i;j++)
       cout<<"*";
        cout<<endl;
  }
  return 0;
  ..Program finished with exit code 0 ress ENTER to exit console.
```

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

return 0;



```
#include <iostream>
using namespace std;
int main()
{
  int n;
  cout<<"Enter the Rows";
  cin>>n;
  for(int i=1;i<=n;i++)
  {
    for(int k=1;k<=n-i;k++)
      cout<<" ";
    for(int j=1;j<=(2*i)-1;j++)
      cout<<"*";
    cout<<endl;
  }
                                                        input
Enter the Rows5
 ****
 ...Program finished with exit code 0
Press ENTER to exit console.
```

```
#include<iostream>
using namespace std;
int main()
{
int size,i,j,k,l;
cout<<"Enter the size ";</pre>
cin>>size;
for(i=0;i<size;i++)
{
for(j=size;j>i;j--)
cout<<"*";
for(j=1;j<=i;j++)
cout<<" ";
for(k=2;k<=i;k++)
cout<<" ";
for(j=size;j>i;j--)
{
if( j==size-1 && i==0)
continue;
cout<<"*";
}
cout<<endl;
}
return 0;
```

}

```
Enter the size 5
*********
*** ***

*** ***

...Program finished with exit code 0

Press ENTER to exit console.
```

PATTERN 5-

```
#include<iostream>
using namespace std;
int main()
{
int num=65,n;
cout<<"Enter Number of Lines:";</pre>
cin>>n;
for(int i=0;i<n;i++){
for(int j=n;j>i;j--,num++)
{
cout<<char(num);</pre>
}
num=65;
cout<<endl;
}
return 0;
}
```

```
Enter Number of Lines:4
ABCD
ABC
AB
AB
A
...Program finished with exit code 0
Press ENTER to exit console.
```

PATTERN 6-

```
#include <iostream>
using namespace std;
int main() {
 int n;
 cout<<"Enter the number"<<endl;</pre>
 cin>>n;
 // loop to print the pattern
 for (int i = 0; i < n; i++) {
  // print column
  for (int j = 0; j \le i; j++) {
   cout << (j+1);
  }
  cout << "\n";
 }
 return 0;
}
```

```
Enter the number

6
1
12
123
1234
12345
123456
....Program finished with exit code 0
Press ENTER to exit console.
```

```
#include<iostream>
using namespace std;
int main()
{
int size,i,j,k,l,ch=65;
cout<<"Enter the size ";
cin>>size;
for(i=0;i<size;i++) //loop for number of rows
{
for(j=size;j>i;j--)
{
cout<<char(ch);
ch++;
}
ch--;
for(j=1;j<=i;j++)
cout<<" ";
for(k=2;k<=i;k++)
cout<<" ";
for(j=size;j>i;j--)
```

```
{

if(j==size-1 && i==0) //for leaving ch in first line

continue;

cout<<char(ch);

ch--;
}

cout<<endl;

ch=65;
}

return 0;
}

Enter the size 5

ABCOZZOGB

ABC BA

AB BA

--Program finished with exit code 0

Press ENTER to exit console.
```