

Program 1: Write a Program to check a number is prime or not?

SOL:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
int main()
{
    int a;
    cout<<"Enter a number"<<endl;
    cin>>a;
    bool prime=true;
    for(int i=2; i<=a/2; i++){
        int r= i % 2;
        if(r == 0){
            prime=false;
            break;
        }
    }
    if(prime == true){
        cout<<"The given value is prime number"<<endl;
    }
    else{
        cout<<"The given value is composite number"<<endl;
    }
    system("pause");
    return 0;
}
```

Program 2:

Write a Program to show the following output?

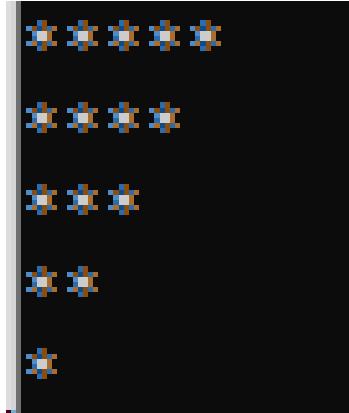


Sol:

```
#include "stdafx.h"
#include<iostream>
using namespace std;

int _tmain(int argc, _TCHAR* argv[])
{
    for(int i=1; i<=5; i++){
        for(int j=1; j<=i; j++){
            cout<<"*";
        }
        cout<<endl;
    }
    system("pause");
    return 0;
}
```

Program 3: Write a Program to show the following output?



Sol:

```
#include "stdafx.h"  
#include<iostream>  
using namespace std;  
  
int _tmain(int argc, _TCHAR* argv[]){  
    for(int i=5; i>=1; i--){  
        for(int j=1; j<=i;j++){  
            cout<<"*";  
        }  
        cout<<endl;  
    }  
    cout<<endl;  
    system("pause");  
    return 0;  
}
```

Program 3: Write a Program to show the following output?



Sol:

```
#include "stdafx.h"
#include<iostream>
using namespace std;

int _tmain(int argc, _TCHAR* argv[])
{
    for(int i=1; i<=5; i++){
        for(int k=5-i; k>0; k--){
            cout<<" ";
        }
        for(int j=1; j<=i; j++){
            cout<<"*";
        }
        cout<<endl;
    }

    system("pause");
    return 0;
}
```

Program 3:

Write a Program to show the following output?



Sol:

```
#include "stdafx.h"
#include<iostream>
using namespace std;

int _tmain(int argc, _TCHAR* argv[])
{
    for(int i=5; i>=1; i--){
        for(int k=5-i; k>0; k--){
            cout<<" ";
        }
        for(int j=1; j<=i; j++){
            cout<<"*";
        }
        cout<<endl;
    }
    system("pause");
    return 0;
}
```

Program 4:

Print C in *.

Sol:

```
#include "stdafx.h"
#include<iostream>
using namespace std;

int _tmain(int argc, _TCHAR* argv[])
{
    for(int i=1; i<=5; i++){
        for(int j=1; j<=15; j++){
            cout<<"*";
        }
        cout<<endl;
    }
    for(int i=1; i<=5; i++){
        for(int j=1; j<=8; j++){
            cout<<"*";
        }
        cout<<endl;
    }
    for(int i=1; i<=5; i++){
        for(int j=1; j<=15; j++){
            cout<<"*";
        }
        cout<<endl;
    }
    system("pause");
    return 0;
}
```

Program 4:

Print I in *.

```
#include "stdafx.h"
#include<iostream>
using namespace std;

int _tmain(int argc, _TCHAR* argv[])
{
    for(int i=1; i<=5; i++){
        for(int j=1; j<=15; j++){
            cout<<"*";
        }
        cout<<endl;
    }

    for(int i=1; i<=5; i++){
        for(int j=1; j<=5; j++){
            cout<<" ";
        }
        for(int j=6; j<=10; j++){
            cout<<"*";
        }
        for(int j=11; j<=15;j++){
            cout<<" ";
        }
        cout<<endl;
    }

    for(int i=1; i<=5; i++){
        for(int j=1; j<=15; j++){
            cout<<"*";
        }
        cout<<endl;
    }

    system("pause");
    return 0;
}
```