```
//Iterative Program
#include<iostream>
using namespace std;
int main()
     int n1=0, n2=1, n3, i, n;
     cout<<"Enter number of elements : ";</pre>
     cin>>n;
     cout<<endl;</pre>
     cout<<n1<<" "<<n2<<" ";
     for(i=2;i<n;i++)
           n3=n1+n2;
           cout<<n3<<" ";
           n1=n2;
           n2=n3;
     }
     cout<<endl;
     return 0;
}
/*
OUTPUT:
Enter number of elements : 20
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987
1597 2584 4181
*/
//Recursive Program
#include<iostream>
using namespace std;
int fibonacci(int n)
{
     if(n \le 1)
           return n;
     }
     else
           return fibonacci(n-1)+fibonacci(n-2);
     }
}
```

```
int main()
{
    int n,i;
    cout<<"Enter number of elements : ";
    cin>>n;
    cout<<endl;

    for(i=0;i<n;i++)
    {
        cout<<fibonacci(i)<<" ";
    }
    cout<<endl;
}

/*

OUTPUT:
Enter number of elements : 10

0  1  1  2  3  5  8  13  21  34

*/</pre>
```