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Fundamentals of Programming

Lab task 6

Task 1

```
#include <iostream>
using namespace std;
int main () {
int terms, first=0, second=1,next;
cout<<"Enter the number of terms you want in the sequence: "; //Determines the amount of
values displayed
cin>>terms;
cout<<"The sequence is: "<<endl;</pre>
for (int i=1; i<terms; i++) {
                                                  //Outer loop that prints total number of
terms
       for (int j=1; j<=i; j++) {
                                                     //Inner loop that prints the terms using i
              cout<<first<<endl;</pre>
              next=first+second;
                                                          //Adding the terms for appropriate
fibonacci values
                                                        //Assigns the value of the first to
              first=second;
second term
              second=next;
                                                        //Swaps the value of the second term
with the next term
       }
       cout;
}
                C:\Users\HC\Documents\Lab task 6.exe
return 0;
               Enter the number of terms you want in the sequence: 5
}
               The sequence is:
```

Task 2

```
#include <iostream>
using namespace std;
int main () {
int size,number=1;
cout<<"Enter the size of the triangle: "; cin>>size; //Determines the number of rows
for (int i = 0; i <= size; ++i){
                                          //Outer loop for number of values to be printed
for (int j=0; j<=i; ++j) {
                                         //Inner loop to print the next value in each row
       cout<<number<<" ";
                                                //Prints the spaces in front of each number
       ++number;
}
cout<<endl;
                                       //Prints the numbers
}
return 0;
}
```

```
Enter the size of the triangle: 6

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

16 17 18 19 20 21

22 23 24 25 26 27 28
```