Fop Lab Task 6

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Section: B

TASK 1

```
#include <iostream>
using namespace std;
int main()
  int sum = 0, length;
  int num1 = 0, num2 = 1;
  cout<<"Enter length of the sequence: ";</pre>
  cin>>length;
  sum = num1 + num2;
  cout<<num1<<", "<<num2<<", "<<sum<<", ";
  for (int i = 0; i<length-3; i++) {
    num1 = num2;
    num2 = sum;
    sum = num1 + num2;
    for (int j = 0; j<1; j++) {
      cout<<sum<<", ";
    }
  }
}
```

Output

```
Enter length of the sequence: 8
0, 1, 1, 2, 3, 5, 8, 13,
Process returned 0 (0x0) execution time : 10.328 s
Press any key to continue.
```

TASK 2

```
#include <iostream>
using namespace std;
int main()
{
  int rows;
  cout << "Enter the number of rows for Pascal's triangle: ";</pre>
  cin >> rows;
  for (int i = 0; i < rows; i++) {
     int num = 1;
     for (int j = 0; j < rows - i; j++) {
       cout << " ";
     }
     for (int k = 0; k \le i; k++) {
       cout << " " << num;
       num = num * (i - k) / (k + 1);
     }
     cout << endl;
  }
}
```

Output

```
Enter the number of rows for Pascal's triangle: 8

1
1
1
1
1
1
3
3
1
1
4
6
4
1
5
10
10
5
1
1
6
15
20
15
6
1
7
21
35
35
21
7
1
Process returned 0 (0x0) execution time: 4.315 s
Press any key to continue.
```