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PPS13

Q1

Aim:

Write a basic C++ program to generate Fibonacci series for 'n' numbers.

Procedure:

Input:

Number of elements of Fibonacci Series, n

Output:

Fibonacci series of n elements

Algorithm:

Step 1: Read n

Step 2: Initialise a, b, c. a=0, b=1

Step 3: Repeat steps 4 to 5 n times

Step 4: If i = 0 or i = 1 then print i

Step 5: Else

Step A: c = a + b

Step B: a = b

Step C: b = c

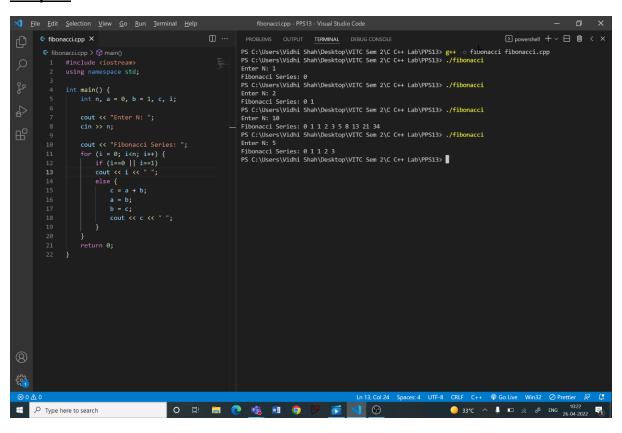
Step D: Print c

Step 6: Return 0

Code:

```
#include <iostream>
using namespace std;
int main() {
    int n, a = 0, b = 1, c, i;
    cout << "Enter N: ";</pre>
    cin >> n;
    cout << "Fibonacci Series: ";</pre>
    for (i = 0; i < n; i++) {
        if (i==0 || i==1)
        cout << i << " ";
        else {
            c = a + b;
            a = b;
            b = c;
            cout << c << " ";
        }
    return 0;
```

Output:



Aim:

Write a C++ program to generate the pay slip report for the employees working in an Organization. HRA is 12% and DA is 18% from basic salary for regular Employee, Print the Net Salary along with the name and id. Basic salary is a private data.

Procedure:

Input:

Employee Name Employee ID Basic Salary

Output:

Net Salary

Algorithm:

Class Esalary:

Step 1: Create a class Esalary

Step 2: Add private data members Employee ID, Name, Basic Salary, HRA, DA and Net Salary

Step 3: Add public member functions

- 1. **Input function** that reads input for ID, Name and Basic Salary
- 2. Net Salary function that calculates HRA, DA and Net Salary
 - a. HRA = 0.12*basic_salary
 - b. DA = 0.18*basic_salary
 - c. Net Salary = basic_salary + HRA + DA
- 3. Output function that displays ID, Name and Net Salary

Main Function:

Step 1: Create an object e1 from class Esalary

Step 2: Call the member functions

- 1. e1.input()
- 2. e1.netsalary()
- 3. e1.output()

Step 3: Return 0

Output:

