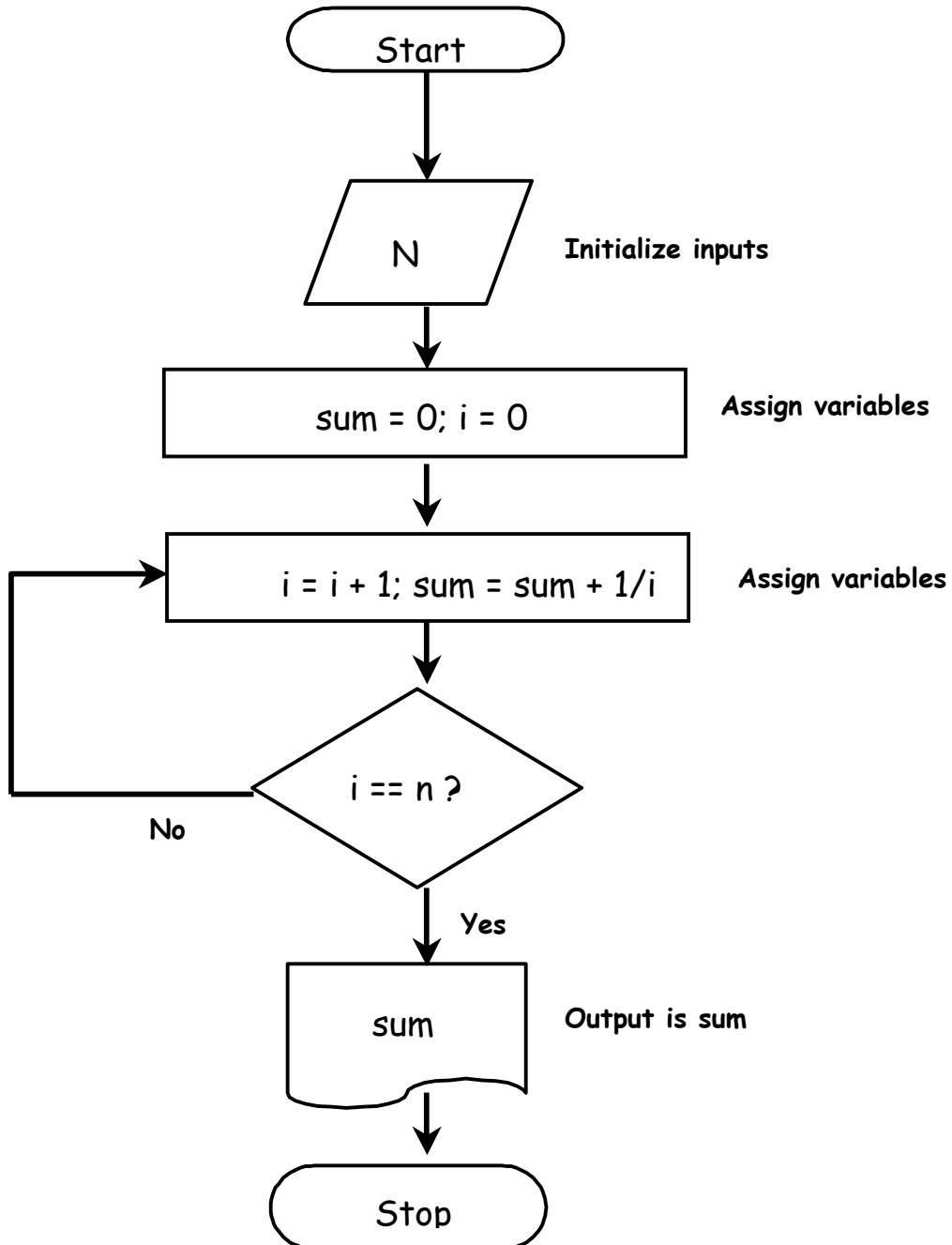


Problem: Compute $\sum_{i=1}^N \frac{1}{i}$. (Input = N, Output = $\frac{1}{1} + \frac{1}{2} + \dots + \frac{1}{N}$)

Flowchart:



Pseudocode:

1. sum = 0
2. i = 0
3. i = i + 1
4. sum = sum + 1/i
5. Repeat 3 and 4 until i == n

Source file:

```
// Prof. Suparna Datta
// GE U111–Section X
// January 26, 2004

// This program computes 1/1 + 1/2 + 1/3 + ... + 1/N for some pre-defined N

#include <iostream> // we will use cout to print the answer
using namespace std;

#define N 3 // chose to make N a constant value here
// note that we could have also used cout and cin to prompt
// the user for N's value

int main()
{
    double sum = 0; // sum will hold the desired output. note sum != integer
    int i;
    for (i = 1; i <= N; i = i+1) // loop goes from i = 1 to N
        sum = sum + 1.0/i;
    cout << "Sum is " << sum << endl;
    return 0;
}
```