Experiment – I

Aim: Write a program to implement CPU scheduling for first come first serve.

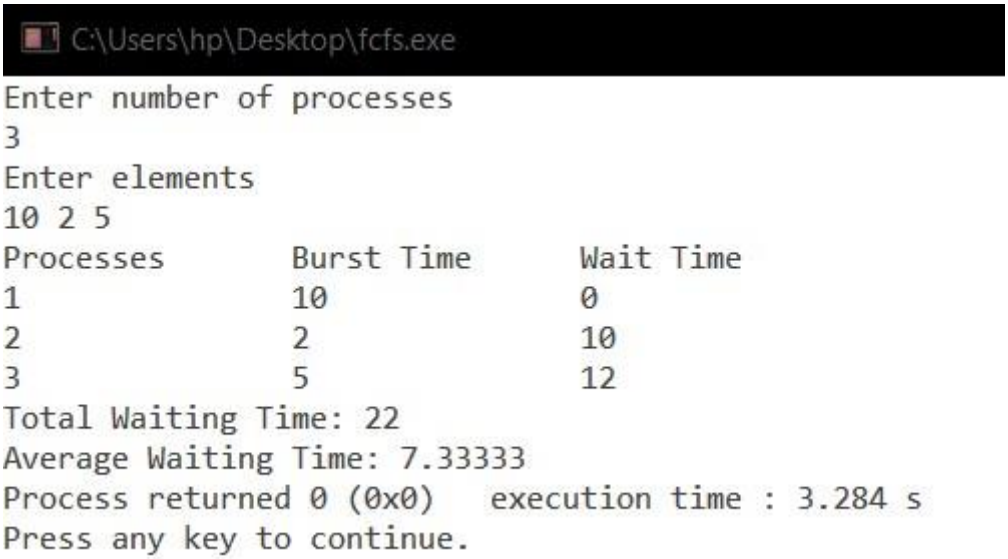
Software Used: Code::Blocks

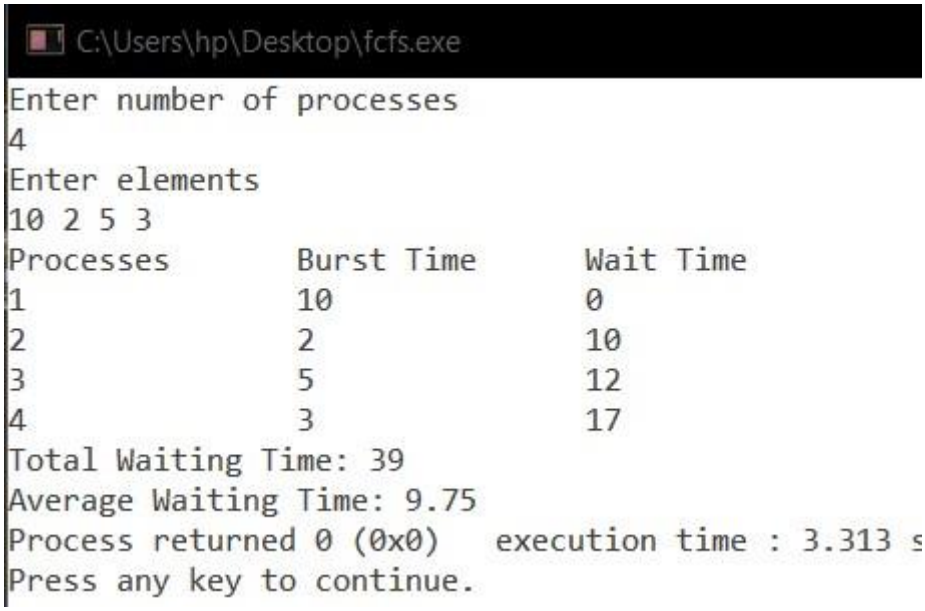
Code:

```
#include <iostream>
using namespace std;
int main() {
	int size;
	float sum = 0, test = 0;
	cout << "Enter number of processes"<<endl;
	cin >> size;
	int* arr = new int[size];
	cout << "Enter elements"<<endl;
	for(int i = 0; i < size; i++){
		cin >> arr[i];
	}
	cout << "Processes\tBurst Time\tWait Time" << endl;
	for(int i = 0; i < size; i++){
		if(i!=0){
			test+=arr[i - 1];
		}
		cout << i + 1 << "\t\t" << arr[i] << "\t\t" << test << endl;
		sum+=test;
	}
	cout << "Total Waiting Time: "<<sum<<endl;
	cout << "Average Waiting Time: "<<sum/size;
	return 0;
}
```

Result: Successfully implemented CPU scheduling for first come first serve.

OUTPUT


C:\Users\hp\Desktop\fcfs.exe
Enter number of processes
3
Enter elements
10 2 5
Processes Burst Time Wait Time
1 10 0
2 2 10
3 5 12
Total Waiting Time: 22
Average Waiting Time: 7.33333
Process returned 0 (0x0) execution time : 3.284 s
Press any key to continue.


C:\Users\hp\Desktop\fcfs.exe
Enter number of processes
4
Enter elements
10 2 5 3
Processes Burst Time Wait Time
1 10 0
2 2 10
3 5 12
4 3 17
Total Waiting Time: 39
Average Waiting Time: 9.75
Process returned 0 (0x0) execution time : 3.313 s
Press any key to continue.