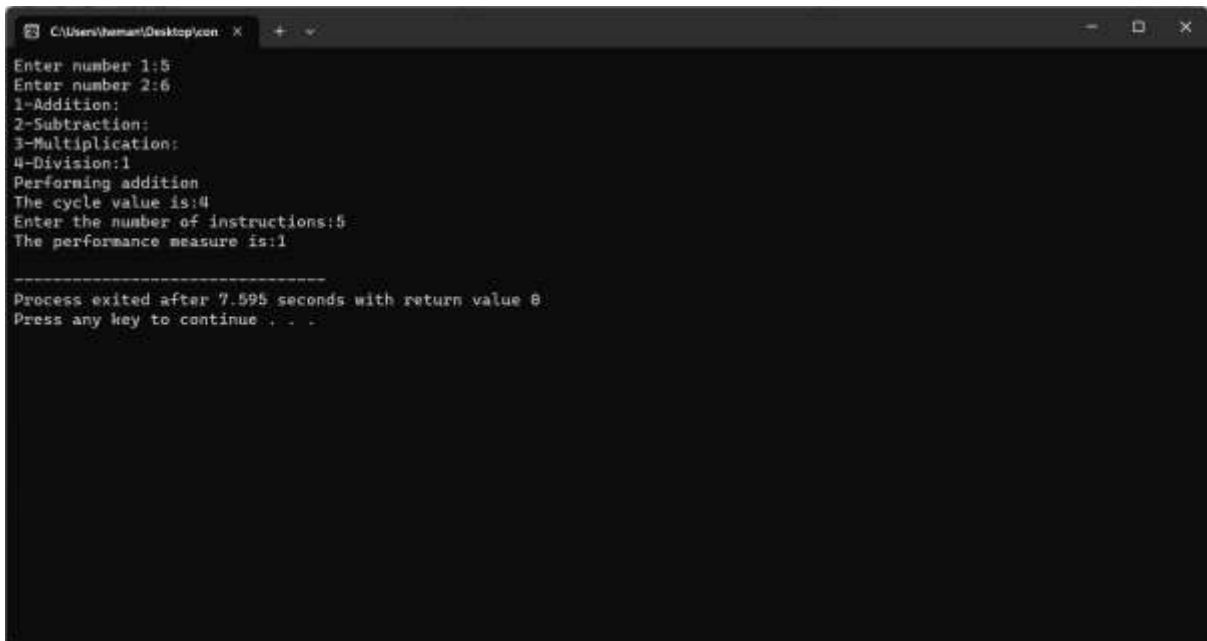


45-Two stage pipeline

```
#include<stdio.h>

int main()
{
    int counter =1,a,b,choice,res,ins;
    printf("Enter number 1:");
    scanf("%d",&a);
    counter = counter+1;
    printf("Enter number 2:");
    scanf("%d",&b);
    counter = counter +1;
    printf("1-Addition:\n2-Subtraction:\n3-Multiplication:\n4-Division:");
    scanf("%d",&choice);
    switch(choice)
    {
        case 1: printf("Performing addition\n");
                res = a+b;
                counter = counter+1;
                break;
        case 2: printf("Performing subtraction\n");
                res = a-b;
                counter = counter+1;
                break;
        case 3: printf("Performing Multiplication\n");
                res = a*b;
                counter = counter+1;
                break;
        case 4: printf("Performing Division\n");
                res = a/b;
                counter = counter+1;
                break;
```

```
        default: printf("Wrong input");  
                break;  
    }  
  
    printf("The cycle value is:%d\n",counter);  
    printf("Enter the number of instructions:");  
    scanf("%d",&ins);  
  
    int performance_measure = ins/counter;  
    printf("The performance measure is:%d\n",performance_measure);  
  
    return 0;  
}
```



```
C:\Users\haman\Desktop\con > .\con.exe  
Enter number 1:5  
Enter number 2:6  
1-Addition:  
2-Subtraction:  
3-Multiplication:  
4-Division:1  
Performing addition  
The cycle value is:4  
Enter the number of instructions:5  
The performance measure is:1  
  
-----  
Process exited after 7.595 seconds with return value 0  
Press any key to continue . . .
```