

## EXPERIMENT 5

### Aim :

Write a program to declare a class Time with data members mm for minutes, ss for seconds and hh for hours. Define a parameterized constructor to assign time to its objects. Add two Time objects using member function and assign to third object. Implement all possible cases of time.

### Code :

```
#include <iostream>
using namespace std;

class Time
{
private:
    int hh;
    int mm;
    int ss;

public:
    Time(int h = 0, int m = 0, int s = 0)
    {
        hh = h;
        mm = m;
        ss = s;
    }

    Time add(Time t1)
    {
        Time temp;
        temp.ss = ss + t1.ss;
        temp.mm = mm + t1.mm;
        temp.hh = hh + t1.hh;

        if (temp.ss >= 60)
        {
            temp.mm += temp.ss / 60;
            temp.ss = temp.ss % 60;
        }
        if (temp.mm >= 60)
        {
            temp.hh += temp.mm / 60;
            temp.mm = temp.mm % 60;
        }
        return temp;
    }
}
```

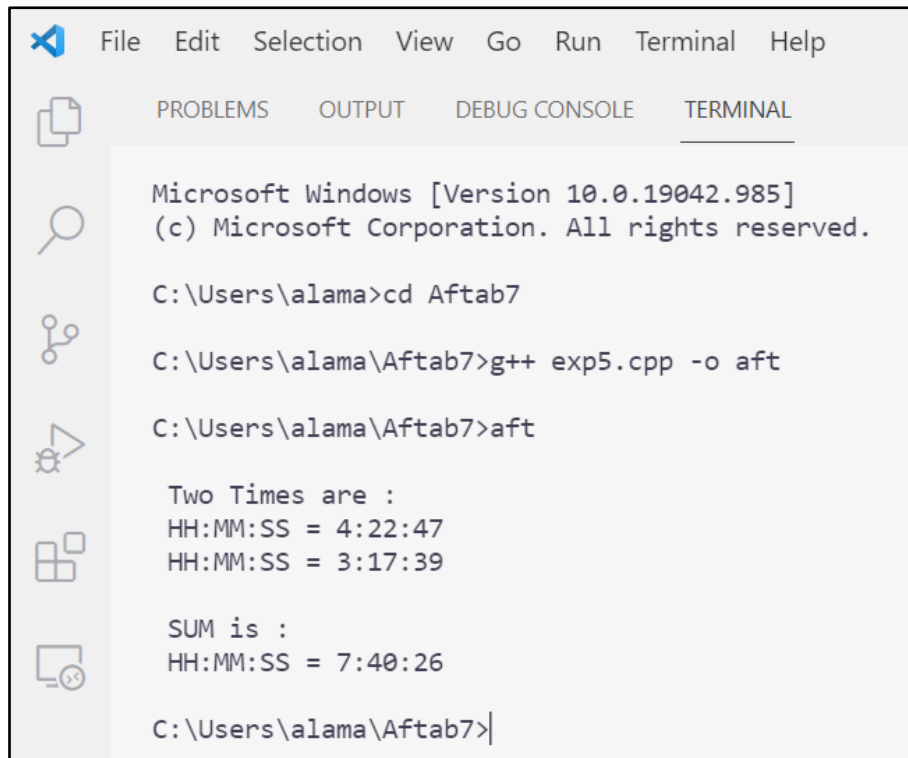
```
void display()
{
    cout << " HH:MM:SS = " << hh << ":" << mm << ":" << ss << endl;
}

};

int main()
{
    Time t1(4, 22, 47), t2(3, 17, 39), t3;
    cout << "\n Two Times are : " << endl;
    t1.display();
    t2.display();

    t3 = t1.add(t2);
    cout << "\n SUM is : " << endl;
    t3.display();

    return 0;
}
```

**Output Screenshot :**

```
Microsoft Windows [Version 10.0.19042.985]
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C:\Users\alama>cd Aftab7

C:\Users\alama\Aftab7>g++ exp5.cpp -o aft

C:\Users\alama\Aftab7>aft

Two Times are :
HH:MM:SS = 4:22:47
HH:MM:SS = 3:17:39

SUM is :
HH:MM:SS = 7:40:26

C:\Users\alama\Aftab7>|
```