

Q1 You have been given a Time class to represent time in hours and minutes to help with finding time duration spent of two different activities running. Your goal is to implement addition of two Time objects, handling the overflow of minutes into hours(e.g. Adding 1 hour 35 mins and 1 hour 30 mins would make 3 hours and 5 mins).

```
class Time {
private:
    int hours, minutes;
public:
    Time(int h, int m) : hours(h), minutes(m) {} // Constructor
    void display();
    ~Time();
};
```

You need to code only for these questions.

- 1) Overload the + operator to facilitate the addition of two Time objects, the result should correctly manage minutes exceeding 60 by converting them into hours. (7)

- 2) Demonstrate its use in main function with two Time objects, showing the total time after addition. No need to implement display function just call it in main. (3)

Time operator + (const Time &other) {

Time result;

result.hours = hours + other.hours;

result.minutes = minutes + other.minutes;

if (result.minutes > 60)

{

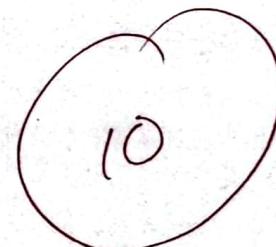
result.minutes -= 60;

result.hours++;

}

return result;

}



int main {

Time t1(1, 35);

Time t2(1, 30);