```
/*
ID: s3603751
Name: Yelong Qian
version: Ass_part2_v6
Program: Overtime salary calculator
*/
#include <cstdlib>
#include <iostream>
using namespace std;
int main(int argc, char *argv[])
    //variable decorator
    int weekWork = 0;
    int weekend = 0;
    int overtime = 0;
    int i;
    int weekWorkOut = 0;
    int weekTotal = 0;
    int totalOvertime = 0;
    int totalSalary = 0;
    int totalMonth = 0;
    int repeat;
    const int MAX = 7;
    const int MIN = 2;
    int j = 2;
    repeat = rand()%(MAX-MIN+1)+2; //random number
    while(j++ < repeat)</pre>
        for(i=1;i<=4;i++)
            cout << "Week" << i << endl;//show which week</pre>
             //start loop intput
            while(1)
             {
                 //input weekWork
                 cout << "Total hours worked Mon-Fri? ";</pre>
                 cin >> weekWork;
                 //input weekend
                 cout << "Hours worked overtime on weekend? ";</pre>
                 cin >> weekend;
                 //input condition & loop break
                 if(weekWork <= 46 && weekend <= 16)</pre>
                     break; //while loop stop
                 }
                 else
                     weekWork = 0;//set to 0 if condition is wrong(
important for total month)
                     weekend = 0;//\text{set} to 0 if condition is wrong(
importan foe total salary)
```

```
cout << "Incorrect entry: weekday OT hours must be</pre>
less than 10, weekend OT must be less that 16" << endl;
                     cout << "Please re-enter" << endl;</pre>
                 }//end if
             }//end loop
             //weekwork condition fix
             if(weekWork <= 35)</pre>
                 weekWorkOut = weekWork;
             else if ( weekWork \geq 36)
                 weekWorkOut = 36;
             }//end if
             //headache start
             //total hours overtime in week
             overtime = weekWork - weekWorkOut;
             totalOvertime = weekWork - weekWorkOut + weekend;
             cout << "Overtime hours worked this week: " << totalOvertime</pre>
<< endl;//output overtime
             //total salary in week
            weekTotal = weekWorkOut * 20 + overtime * 1.5 * 20 + weekend
* 2 * 20;
            cout << "Weekly salary: " << weekTotal <<endl;// output week</pre>
salary
            cout << " " << endl;
            //loop back counter
             totalOvertime = totalOvertime + totalMonth;
             totalMonth = totalOvertime;
            weekTotal = weekTotal + totalSalary;
            totalSalary = weekTotal;
             //end headache!!
             //total hours & total salary
             if(i==4)
                 cout << "Overtime worked this month: " << totalMonth << "</pre>
hours" << endl;//output overtime in a month</pre>
                 cout << "Salary this month is $" << totalSalary <<</pre>
endl;//output total salary in month
                 cout << "Program ended with exit code: 0" << endl;</pre>
             }//end if
        }
        weekTotal = 0;
        totalSalary = 0;
        cout << " " << endl;
    }//end loop
    system("PAUSE");
    return EXIT SUCCESS;
}
```

ID: 53603751 start Name: Yelong alan Whie 3-6 times repeat For 1604 input weekWork WEEKWERK =0 weekend = C Inut weekend False while work L 88 weekend L=6) 1 True folgo I foretwork = 35 elseit weekwork >= 36 V true see page 1 headache Homular (caulation) out put & galery, each week hours loop back counter True Falge H(i==+)
entput total over time hours in month cutput total salay in month week total = 0 et salary=0 start program again true False Stop

pase 3

IPO Chat

Input process Output

WeekWork WeekWorkOut WoekTotel

Weekend Overtime total Overtime

total Month

Lotal Salary

