For/While/DoWhile Loop

<u>C++</u>

```
using namespace std;
     int overtime(int pay, int hour){
        int extraTime = hour - 40;
float extraPay = pay * extraTime * 2;
        return extraPay;
     int main(){
   int unit, hour;
        float pay, totalPay, finalPay;
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        float extraTime = 0, extraPay = 0;
        << "\n";
cout << "Enter this worker's hourly pay. $";</pre>
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           cin >> pay;
           cout << "For how long has he/she worked? (In hours) ";</pre>
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           cin >> hour;
           if(hour > 40){
             extraTime = hour - 40;
              extraPay = overtime(pay, hour);
           totalPay = (pay * hour) + extraPay;
           finalPay = totalPay / 1.07;
           cout << "Total hours worked: " << hour << " (" << extraTime << " overtime)\n";</pre>
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           cout << "Final pay: $" << finalPay << "\n";</pre>
Worker #1
Enter this worker's hourly pay. $7.50
For how long has he/she worked? (In hours) 31
Total hours worked: 31 (0 overtime)
Gross pay: $232.5
Payroll tax: $16.275
Final pay: $217.29
Worker #2
Enter this worker's hourly pay. $4.15
For how long has he/she worked? (In hours) 53
Total hours worked: 53 (13 overtime)
Gross pay: $323.95
Payroll tax: $22.6765
Final pay: $302.757
Worker #3
Enter this worker's hourly pay. $9.45
For how long has he/she worked? (In hours) 27
Total hours worked: 27 (13 overtime)
Gross pay: $359.15
Payroll tax: $25.1405
Final pay: $335.654
```

C#

```
using System;
         namespace workerWage{
               0 references
public class WorkerWage{
                       Oreferences
static void Main(string[] args)[
int unit = 0, hour, extraTime = 0;
                              float pay, totalPay, finalPay, extraPay = 0;
while(unit < 3){</pre>
                                     unit++;
                                     Console.WriteLine
                                     (
'.'nEnter this worker's hourly pay. (In $)");
pay = float.Parse(Console.ReadLine());
Console.WriteLine("For how long has he/she worked? (In hours)");
hour = int.Parse(Console.ReadLine());
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                                     if(hour > 40){
    extraTime = hour - 40;
                                           extraPay = pay * extraTime * 2;
                                     totalPay = (pay * hour) + extraPay;
finalPay = totalPay / (float)1.07;
                                      Console.WriteLine
                                     Console.WriteLine("Total hours worked: " + hour + " (" + extraTime + " overtime)");
Console.WriteLine("Gross pay: $" + totalPay);
Console.WriteLine("Payroll tax: $" + (totalPay * 0.07));
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                                      Console.WriteLine
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                                      Console.WriteLine("Final pay: $" + finalPay);
```

```
Worker #1
Enter this worker's hourly pay. (In $)
For how long has he/she worked? (In hours)
31
Total hours worked: 31 (0 overtime)
Gross pay: $196.84999
Payroll tax: $13.779499359130861
Final pay: $183.97194
Enter this worker's hourly pay. (In $)
For how long has he/she worked? (In hours)
Total hours worked: 54 (14 overtime)
Gross pay: $323.9
Payroll tax: $22.67299957275391
Final pay: $302.71027
Worker #3
Enter this worker's hourly pay. (In $)
For how long has he/she worked? (In hours)
17
Total hours worked: 17 (14 overtime)
Gross pay: $255.95001
Payroll tax: $17.916500854492188
Final pay: $239.20561
```

Java

```
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Worker #1
Enter this worker's hourly pay. (In $)
For how long has he/she worked? (In hours)
Total hours worked: 26 (0 overtime)
Gross pay: $188.5
Payroll tax: $13.19500000000000002
Final pay: $176.16821
Worker #2
Enter this worker's hourly pay. (In $)
For how long has he/she worked? (In hours)
Total hours worked: 42 (2 overtime)
Gross pay: $197.8
Payroll tax: $13.846000213623048
Final pay: $184.8598
Worker #3
Enter this worker's hourly pay. (In $)
For how long has he/she worked? (In hours)
17
Total hours worked: 17 (2 overtime)
Gross pay: $162.55
Payroll tax: $11.378500213623047
Final pay: $151.91588
```