

Main.cpp

```
#include "payRoll.h"

using namespace std;

int main()
{
    PayRoll pr;

    pr.display();
    pr.calculateWages();
    pr.displayWages();

    return 0;
}
```

payRoll.h

```
class PayRoll
{
private:
    const int empID[7] = {5658845, 4520125, 7895122, 8777541,
8451277, 1302850, 7580489};
    int hours[7];
    int payRate[7];
    int wages[7];

public:
    void display();
    void calculateWages();
    void displayWages();
};
```

payRoll.cpp

```
#include "payRoll.h"
#include <iostream>
#include <iomanip>

using namespace std;

void PayRoll::display()
{
    double numHours;
    double numPayRate;
    for (int i = 0; i < 7; i++)
    {
        cout << "Please enter the hours for employee: " <<
empID[i] << ": ";
        cin >> numHours;
        while (numHours < 1)
        {
            cin.clear();
            cin.ignore();
            cout << "Please enter a valid number: ";
            cin >> numHours;
        }
        hours[i] = numHours;

        cout << "Please enter the pay rate for employee: " <<
empID[i] << ": ";
        cin >> numPayRate;
        while (numPayRate < 1)
        {
```

```

        cin.clear();
        cin.ignore();
        cout << "Please enter a valid number: ";
        cin >> numPayRate;
    }
    payRate[i] = numPayRate;
}
}

void PayRoll::calculateWages()
{
    for (int i = 0; i < 7; i++)
    {
        wages[i] = hours[i] * payRate[i];
    }
}

void PayRoll::displayWages()
{
    for (int i = 0; i < 7; i++)
    {
        cout << "---Employee: " << empID[i] << "---" << endl;
        cout << "Hours worked: " << hours[i] << endl;
        cout << "Rate of pay: " << payRate[i] << endl;
        cout << "Total wages: " << wages[i] << endl;
    }
}

```

Output:

```
Please enter the hours for employee: 5658845: 10
Please enter the pay rate for employee: 5658845: 15
Please enter the hours for employee: 4520125: 15
Please enter the pay rate for employee: 4520125: 10
Please enter the hours for employee: 7895122: 20
Please enter the pay rate for employee: 7895122: 10
Please enter the hours for employee: 8777541: 17
Please enter the pay rate for employee: 8777541: 10
Please enter the hours for employee: 8451277: 15
Please enter the pay rate for employee: 8451277: 10
Please enter the hours for employee: 1302850: 25
Please enter the pay rate for employee: 1302850: 10
Please enter the hours for employee: 7580489: 15
Please enter the pay rate for employee: 7580489: 10
---Employee: 5658845---
Hours worked: 10
Rate of pay: 15
Total wages: 150
---Employee: 4520125---
Hours worked: 15
Rate of pay: 10
Total wages: 150
---Employee: 7895122---
Hours worked: 20
Rate of pay: 10
Total wages: 200
---Employee: 8777541---
Hours worked: 17
Rate of pay: 10
Total wages: 170
---Employee: 8451277---
Hours worked: 15
Rate of pay: 10
Total wages: 150
---Employee: 1302850---
Hours worked: 25
Rate of pay: 10
Total wages: 250
---Employee: 7580489---
Hours worked: 15
Rate of pay: 10
Total wages: 150
```