1. The following code is seriously broken. Circle every mistake and write a correct version to the right.

```cpp
#include <iostream>
uses std::cout;

class Worker {
    double hourly-rate;

public:
    Worker(double rate) {
        hourly-rate = rate;
    }

    int getPay(int hours) {
        return hours * hourly-rate;
    }

};

void main() {
    Worker worker(12.50);
    int hours;
    cout << "Enter hours worked: ";
    cin >> hours;
    cout << "Work will cost " << worker.getPay(14) << endl;
}
```

- Comment: #include
- Comment: #using
- Comment: using std::endl;
- using std::cin.
- Comment: class
- Comment: illegal name -- use hourlyRate
- Comment: missing :
- Comment: semicolon should not be here
- Comment: hourlyRate
- Comment: needs to be double
- Comment: hourlyRate
- Comment: missing ;
- Comment: int
- Comment: should be hours
- Comment: endl
- Comment: return 0; (technically not required by special exemption)
2. Write a new version of `getPay()` to calculate “time and a half” overtime, i.e., a worker gets 1.5 times her hourly rate on all work over 8 hours.

   Several variations possible but most require an IF

   ```cpp
double getPay(int hours)
    {
      if (hours > 8)
      {
        return hours * hourlyRate + (hours - 8) * 0.5 * hourlyRate;
      }
      else
      {
        return hours * hourlyRate;
      }
    }
```  

3. Given this code:

   ```cpp
#include <iostream>
#include <string>

int main()
{
    std::string courseName;

    std::cout << "Course name: ";
    std::cin >> courseName;

    std::cout << "Welcome to " << courseName << "!" << std::endl;
}
```

What will be printed after the following user input?

Course name: CS 211 Fundamentals of Programming II

Because `>>` stops at the first space it will print

Welcome to CS!