


# National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Programming Fundamentals	Course Code:	CS1002
	Program:	Electrical Engineering	Semester:	Fall 2023
	Duration:	15 minutes	Total Marks:	10
	Exam Date:	7 September 2023	Weight:	3.33
	Section:	EE-1A -2	Page(s):	2
	Exam Type:	Quiz-1 Solution	CLO #	1

Student Name: \_\_\_\_\_ Roll No. \_\_\_\_\_ Section: \_\_\_\_\_

Instruction/Notes: 1. Do not forget to write your Name and Roll Numbers.  
2. Solve on the paper and Return.

## Question No. 1

Marks: 10

Write a C++ program that will determine the gross pay for an employee. The company pays “straight-time” for the first 40 hours worked by an employee and pays “time-and-a-half” for all hours worked in excess of 40 hours. You have the following information for an employee; the number of hours worked last week and the hourly rate. Your program should input this information for an employee and should determine and display the employee's gross pay.

### Sample Run:

Enter the name of the employee: Sam  
Enter hours worked: 41  
Enter hourly rate of the worker in \$: 10.00  
Salary of Sam is \$415.00

### Solution:

```
#include <iostream>
#include <string>
#include <iomanip>
using namespace std;

int main( )
{
    string name;
    float hours, hourlyRate, salary;

    cout<<fixed<<showpoint<<setprecision(2);

    cout<<"Enter the name of the salesperson:";
    cin>>name;
    cout<<"Enter hours worked:";
    cin>>hours;
    cout<<"Enter hourly rate of the worker in $:";
    cin>>hourlyRate;

    if (hours <= 40)
        salary = hours*hourlyRate;
    else
        salary = (hours*hourlyRate) + ((hours-40) * (hours*1.5)) ;

    cout<<"Salary of "<<name<<"for this week is: $"<<salary;
```

```
    return 0;  
}
```