C# Programming: Practical 6

**Question 1**: Write a Program that will prompt the user to enter a number and then reports if the number entered is positive, negative, or equal to zero.

**Question 2**: Write a Program that will read in two numbers from the user and will determine and display the smaller of the two numbers entered. If the numbers entered are the same, an appropriate message should be displayed.

**Question 3**: Write a Program that will ask the user to enter a grade for a student and will print one of the following, depending on the grade entered:

*0 – 39: Fail*

*40 – 54: Pass*

*55 – 69: Merit*

*70 – 100: Distinction*

**Question 4**: Write a Program to display the effects of an earthquake based on the Richter Scale Value entered:

|  |  |
| --- | --- |
| **Richter Scale Value** | **Effects** |
| Greater Than 0 | Generally not felt. |
| Greater Than 3.5 | Felt by many people, no destruction. |
| Greater Than 4.5 | Damage to poorly constructed buildings. |
| Greater Than 6 | Many buildings damaged. |
| Greater Than 7 | Many buildings destroyed. |
| More Than 8 | Most structures fall. |
| Less than 0. | Negative numbers are not valid. |

**Question 5**: Write a Program that will prompt the user to enter the following:

* The number of hours worked in the week,
* The rate of pay per hour.

It will then calculate and display the total pay due based on the following bonus table:

*0 – 37 Hours: Normal Pay (Hours Worked \* Rate of Pay)*

*38 – 40 Hours: Normal Pay Plus 10%*

*41 – 45 Hours: Normal Pay Plus 15%*

*46+ Hours: Normal Pay Plus 20%*

**Question 6**: Write a Program that will display the following menu on screen:

Calculation Menu:

1. ADD
2. SUBTRACT

Please Enter Choice:

* The Program should enable the user to enter option 1 or option 2.
* After the user has selected option 1 or option 2, they should then be asked to enter to two numbers.
* If the user has chosen option 1, the Program should display the sum of the two numbers entered (no1 + no2).
* If the user has chosen option 2, the Program should display the difference of the two numbers entered (no2 – no1).
* If any other Value other than 1 or 2 is entered an error message should be display, *e.g. Incorrect Option Chosen*.