Visual Studio & First Programs

Objectives :

* Introduce Visual Studio IDE ( chat about its history and evolution of dev environments)
* Creating a project (we do Console applications, chat about the others)
* Emphasis project location should be on h: drive
* Discuss Project structure (solution/project/class(s)/Main/Other methods
* Look at the solution folder that is created and examine its contents, clearly highlight the .cs file
* Develop a number of programs (Note develop each program as a separate project in a solution named (lab2)
* Remember the “essential programming process”!

**Q1**

Create a new project called Lab2Q1, then write the c# code to display the message “Its more fun to compute” on the screen.

**Q2**

Create a new project called Lab2Q2, then write the c# code to display a verse of your favourite song.

**Q3**

Write a program to declare a single integer variable called age, assign your age to it and display it on the screen in the format

I am <age>

Modify it to display

I am <age> years old

**Q4**

Declare two integers, one called apples and the other called oranges. Assign the value 6 to apples and the value 8 to oranges.

Write code to add the two and display the answer in the form:

You have 6 apples

You have 8 oranges

You have 14 pieces of fruit

Modify to display

6 apples and 8 oranges gives you 14 pieces of fruit.

Where will we store the answer ??

Q5

Using variables to store all data, write a program to calculate hourly wages plus overtime. Base hourly rate is 25, regular hours is 40, overtime rate is 37 and overtime hours is 10

Q6.

Using variables to store all data, write a program to covert 500 euro to sterling, exchange rate is 1 euro = 2 sterling (I know it the wrong rate!)

Q7

Using variables to store all data, write a program to calculate the sale cost of a pair of jeans when the regular price is €125 and the sale is offering a 40% discount

Q8

Using variables to store all data, write a program to solve the following. Suppose certain car has a fuel tank with a capacity of 60 litres and an average fuel consumption of 14km/l. How many times must you fill the tank to travel 2000 km ?

How many miles can you travel on 10 gallons of fuel using the same car?