Programming
1e
Worksheet

1	Write a program which asks for two inputs and **adds** the values and outputs the result. Test this for (a) whole number inputs only, (b) large numbers and, separately (c) values which are not whole numbers. For each of the tests look at the **data type** you are using.
2	Write a program which asks for two inputs and **multiplies** the values and outputs the result. Test this for (a) large input values and (b) values which are not whole numbers. For each of the tests look at the **data type** you are using. What input crashes the program?
3	Write a program which asks for two inputs and **subtracts** the first value by the second and outputs the result. Test this for (a) large input values and (b) values which are not whole numbers and (c) when one of the inputs are zero. For each of the tests look at the **data type** you are using.
4	Write a program which asks for two inputs and **divides** the first value by the second and outputs the result. Test this for (a) large input values and (b) values which are not whole numbers and (c) when one of the inputs are zero. For each of the tests look at the **data type** you are using.

5	Write a program which asks the user for the year of their birth. It calculates and

	outputs their age.
6	Write a program that asks for a fahrenheit value. It calculates and outputs the equivalent celsius value using the following formula: `celsius   = (fahrenheit - 32) * 5/9;`
7	Write a program that asks for a celsius value. It calculates and outputs the equivalent fahrenheit value using the following formula: `fahrenheit = celsius * 9/5 + 32;`