Question 6

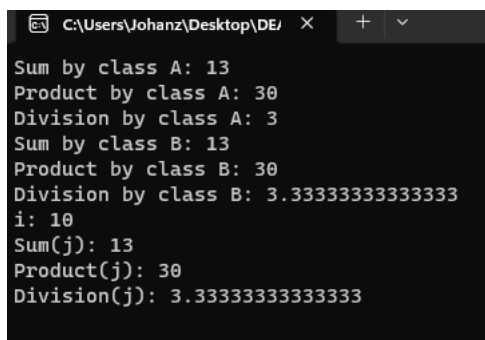- Does b, the instance of ClassB, have an instance variable i accessible?

Since "I" is declared as private in ClassA, it is not accessible in ClassB.

- Is the first call to Console.WriteLine in PrintResults in ClassB legal?

The first call attempts to print out the value of "I", however, since "I" is inaccessible, it is not legal.

- Is the second call to Console.WriteLine in PrintResults in ClassB legal?

The second call attempt only requires the variable "j" which is accessible, which means it is legal.

Explore the output and explain the difference in the behaviour of the two classes.

The main difference between class A and B is that class B inherits some variables and methods from its parent class; class A, such as integer 'I', Sum(), Product() and Division().

Another minor difference between class A and B is seen in the Division() method, where class A declares the variable as an integer while class B declares the variable as a double using the override function.