**Adam Woodliffe – 25018875 Programming for Computing**

*Money Credit Counter*

Explain in everyday language what each line of the following source code

does and the overall functionality created.

***“string attempt;”***

A String in Programming is an object which contains a series of characters. They are more commonly used to declare string variables. A variable is like a box containing information. They can be used to join information together or change a numeric quantity into something readable. E.g. (string firstname = Adam; string lastname = Woodliffe; string fullname = firstname + lastname;).

***“attempt = My\_Dialogs.InputBox("Enter your password");***

***while (attempt != "basic")”***

This is an example of using your own Class (MyDialogs) to give the program specific instructions on how to respond to the users input. An Input Box is displayed with the message “Enter Password”. In this case the Input is a password attempt, in which the program will only give access if the user types in “basic!”. A While statement is a Loop that continuously goes around until certain criteria are met. This type of code is likely to have two other functions further down.

***“{***

***MessageBox.Show("Wrong! - try again.");***

***attempt = InputBox("Enter your password");***

***}”***

A MessageBox popping up with a message such as “Wrong Password” is the second part to the password request. As mentioned above the code is running on a Loop, which will continue to run on a loop until the correct password is given. You could imagine this function kind of like a car going around a roundabout continuously with only one exit (the correct password). A MessageBox displays data. Whereas an InputBox requires the user to give data.

***“MessageBox.Show("Welcome to the program!");”***

This is the final part of the code. Once the user types in the correct password into the InputBox (basic!). It breaks the Loop and displays the final MessageBox with the characters typed within the quotation marks. In this case “Welcome to the program”.

*(Invite to Github sent to Dr Peter O’Neil.) by Woody91.*