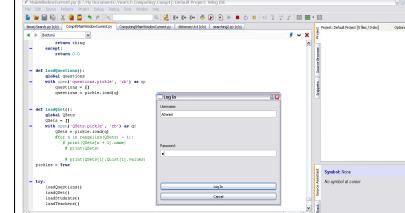
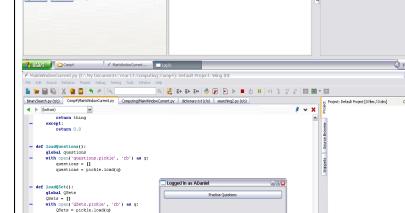
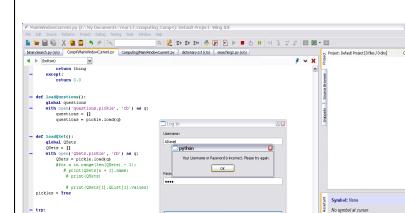
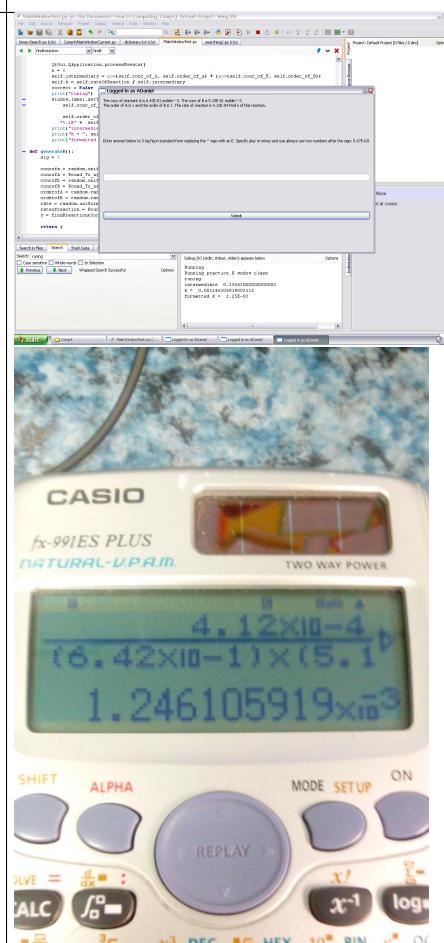


Test number	Description	Data Type	Expected Result	Pass/Fail	Cross Reference
1	Checking that the login screen allows user to log in with their credentials.	Typical	System logs in using the user's data.	Pass	 
2	Checking that the log in screen does not allow people to log in with any credentials.	Erroneous. (Incorrect Password)	Error message appears. (Your Username or Password is incorrect. Please try again.)	Pass	
3	Checking that the program calculates 'k' correctly.	Typical. (Randomly generated numbers)	Answer being the same as on a calculator (rounded to 3sigfig).	Pass	

5

Checking that the program accepts correct answers for 'k' values.

Erroneous (any incorrect answer).

Answer given compared to the correct answer.

Pass

```

In [1]: def sum_squares(n):
    return sum([i**2 for i in range(1, n+1)])
In [2]: sum_squares(10)
Out[2]: 385

```

```

def check():
    assert sum_squares(1) == 1
    assert sum_squares(2) == 5
    assert sum_squares(3) == 14
    assert sum_squares(4) == 30
    assert sum_squares(5) == 55
    assert sum_squares(10) == 385
check()

```

6	<p>That an account must have a unique username, cannot have any unfilled fields apart from middle name and that a target grade between A-U.</p>	<p>Typical (Student,Jack,William,Montfort,Parson,JMont 12EJP, A)</p>	<p>Student account made.</p>	
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7	Checking that only valid information can be input into the fields.	Erroneous (Target grade correct as this is picked up, but the rest are not).	Student count made.	not ac-	Pass	 <pre data-bbox="932 323 1370 633"> valid = False self.canCreateUser() except: print("Not a number") try: int(self.usernameBox.text) valid = True self.canCreateUser() except: pass try: int(self.gradeBox.text) valid = True self.canCreateUser() except: pass if not self.usernameBox or self.usernameCompleter: if self.usernameCheck.isChecked(): for people in teachers: if self.usernameBox.text == people.username: self.usernameText.setText("This username is taken") valid = False break </pre>
8	Clicking the “Practise Questions” button opens the “Practise Questions” window.	Typical				 <pre data-bbox="932 671 1370 981"> if self.usernameCompleter and not self.usernameText: valid = True if self.usernameCheck and not self.usernameText: valid = True if self.usernameText and self.usernameCompleter: valid = True else: valid = False for people in students: if self.usernameText.text == people.username: self.usernameText.setText("This username is taken") valid = False break if self.usernameText.text == "": valid = False if self.usernameText.text == self.usernameCompleter: valid = True if self.usernameText.text == self.usernameText: valid = True if self.usernameText.text == self.usernameText: valid = True </pre>
9						 <pre data-bbox="932 1021 1370 1131"> if self.usernameCompleter and not self.usernameText: valid = True if self.usernameCheck and not self.usernameText: valid = True if self.usernameText and self.usernameCompleter: valid = True else: valid = False for people in students: if self.usernameText.text == people.username: self.usernameText.setText("This username is taken") valid = False break if self.usernameText.text == "": valid = False if self.usernameText.text == self.usernameCompleter: valid = True if self.usernameText.text == self.usernameText: valid = True if self.usernameText.text == self.usernameText: valid = True </pre>