

Testing:

Test Number	Test Type	Target file	Test Name	Purpose of test	Test data or Situation	Expected Result	Actual Result	Outcome and Action Required
1. (Figure 1)	Unit Testing	edit.py	Testing add_account method with correct values	To see if a client adds successfully	First name, last name, title, pronoun, account number, date of birth, occupation, account balance, overdraft limit	Client is successfully added to the CSV file containing the list of clients	User is successfully added	No action required
2. (Figure 2)	Unit Testing	edit.py	Testing add_account method with wrong value for account number(using str instead of int)	To test if a type error is raised	account number	TypeError is raised and the client isn't added to the CSV file	TypeError was raised and client wasn't added to the CSV file	No action required
3. (Figure 3)	Unit Testing	edit.py	Testing account_check method	Check that no account found exception works with account that doesn't exist	Account number that doesn't exist on the CSV file	Exception is raised with the print statement "No account found please try again"	Exception was raised with an invalid account number	No action required
4. (Figure 4)	Unit Testing	edit.py	Testing account_check	Check that account can be	Account number that	Clients' old and updated details	Account is found and	No action is required

			method & set_first_name method	found using the correct account number and that account details are updated on the CSV file	exists in CSV file. new_name is updated in the CSV file.	should be brought up on the screen with account updated within CSV file	old and updated details are shown in the terminal	
5. (Figure 5)	Unit testing	people.py	Testing whether fee is added if account balance is the same as overdraft limit	This test will check whether a £5 fee is added to an account for having the same with account balance as overdraft limit	Account balance = 399 Withdraw = 1 Overdraft limit = 400	No fee should be added to the account	No fee was added to the account	No action is required
6. (Figure 6)	Unit testing	people.py	Testing breach of overdraft limit	This test will check whether a £5 fee is added to the account for going over the arranged overdraft limit	Account balance = 400 Withdraw = 1 Overdraft limit = 400	A £5 fee should be added to the account	A £5 fee was added	No action is required
7. (Figure 7)	Unit testing	people.py	Inputting a String for the withdrawal amount	This test will input a String instead of an integer for the withdrawal amount	Account balance = 401 Withdraw = "Test"	A TypeError should be returned back to the user with no changes made	A TypeError was returned to the user and no changes were made	No action required
8. (Figure 8)	Unit testing	edit.py	Inputting an integer when setting the	This test will input a integer instead of a string	Occupation = 1	A TypeError should be returned back	A TypeError was raised with no	No action required

			occupation in edit_occupation method	value when setting the occupation		to the user with no changes made	changes made	
9. (Figure 9)	Unit testing	edit.py	Inputting a String value in the new occupation	This test will test if the new occupation is updated on the CSV file	Occupation = "Programmer"	Occupation column on the client should be updated	Occupation was updated on the CSV file	No action required

```
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py add_account
*****
You just added the account:
Jeff  Bezos  Mr  Male  5500  01/12/1964  CEO of Amazon  6857489  -40000
*****
Jeff,Bezos,Mr,Male,5500,01/12/1964,CEO of Amazon,6857489,-40000|
```

Figure 1 - Test 1

```
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py add_account
Traceback (most recent call last):
  File "/Users/aaroncunningham/PycharmProjects/c2060506_csc1034_project2_2022/banking_system/main.py", line 20, in <module>
    Jeff_Bazos = clients.Add("Jeff", "Bezos", "Mr", "Male", "5500", "01/12/1964", "CEO of Amazon", 6857489, -40000)
  File "/Users/aaroncunningham/PycharmProjects/c2060506_csc1034_project2_2022/banking_system/edit.py", line 120, in __init__
    raise TypeError("Account number should be an integer")
TypeError: Account number should be an integer
```

Figure 2 - Test 2

```
client_to_be_edited = clients.Edit(account=1)
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py edit_first_name
*****
No account found, please try again
*****
```

Figure 3 - Test 3

```
Jerry, Astle, Rev, Male, 1898, 11/04/2003, Desktop Support Technician, 3909, -3727
```

```
client_to_be_edited = clients.Edit(account=1898)
```

```
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py edit_first_name
```

```
*****
```

```
Old account details account details:
```

	First name	Last name	Title	Pronoun	Account Number	Date of birth	Occupation	Account balance	overdraft limit
117	Barde	Astle	Rev	Male	1898	11/04/2003	Desktop Support Technician	3909	-3727

```
New account details:
```

	First name	Last name	Title	Pronoun	Account Number	Date of birth	Occupation	Account balance	overdraft limit
117	Jerry	Astle	Rev	Male	1898	11/04/2003	Desktop Support Technician	3909	-3727

Figure 4 - Test 4

```
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py withdraw
```

```
Old account balance:
```

	First name	Last name	Title	Pronoun	Account Number	Date of birth	Occupation	Account balance	overdraft limit
130	Aaron	Cunningham	Mr	Male	4999	01/29/1999	Programmer	-399	-400

	First name	Last name	Title	Pronoun	Account Number	Date of birth	Occupation	Account balance	overdraft limit
130	Aaron	Cunningham	Mr	Male	4999	01/29/1999	Programmer	-400	-400

```
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 %
```

Figure 5 = Test 5

```
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py withdraw
Traceback (most recent call last):
  File "/Users/aaroncunningham/PycharmProjects/c2060506_csc1034_project2_2022/banking_system/main.py", line 95, in <module>
    globals()[sys.argv[1]]()
  File "/Users/aaroncunningham/PycharmProjects/c2060506_csc1034_project2_2022/banking_system/main.py", line 46, in withdraw
    known_user.withdraw(withdraw="Test")
  File "/Users/aaroncunningham/PycharmProjects/c2060506_csc1034_project2_2022/banking_system/people.py", line 53, in withdraw
    raise TypeError("Withdrawal amounts should be a integer")
TypeError: Withdrawal amounts should be a integer
```

Figure 7 - Test 7

```
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py withdraw
Old account balance:
  First name  Last name Title Pronoun  Account Number Date of birth  Occupation  Account balance  overdraft limit
130      Aaron  Cunningham  Mr    Male           4999    01/29/1999  Programmer        -400           -400
  First name  Last name Title Pronoun  Account Number Date of birth  Occupation  Account balance  overdraft limit
130      Aaron  Cunningham  Mr    Male           4999    01/29/1999  Programmer        -406           -400
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 %
```

Figure 6 - Test 6

```

aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py edit_occupation
Traceback (most recent call last):
  File "/Users/aaroncunningham/PycharmProjects/c2060506_csc1034_project2_2022/banking_system/main.py", line 95, in <module>
    globals()[sys.argv[1]]()
  File "/Users/aaroncunningham/PycharmProjects/c2060506_csc1034_project2_2022/banking_system/main.py", line 76, in edit_occupation
    client_to_be_edited.set_occupation(new_occupation=1)
  File "/Users/aaroncunningham/PycharmProjects/c2060506_csc1034_project2_2022/banking_system/edit.py", line 81, in set_occupation
    raise TypeError("Occupation should be a string")
TypeError: Occupation should be a string

```

Figure 8 - Test 8

```

Barde, Astle, Rev, Male, 1898, 11/04/2003, Programmer, 3909, -3727
aaroncunningham@Aarons-MacBook-Pro c2060506_csc1034_project2_2022 % python3 banking_system/main.py edit_occupation
*****
Old account details account details:

    First name Last name Title Pronoun  Account Number Date of birth      Occupation  Account balance  overdraft limit
117      Barde      Astle   Rev    Male           1898    11/04/2003 Desktop Support Technician          3909          -3727

New account details:

    First name Last name Title Pronoun  Account Number Date of birth  Occupation  Account balance  overdraft limit
117      Barde      Astle   Rev    Male           1898    11/04/2003 Programmer          3909          -3727
*****

```

Figure 9 - Test 9