Set Task Brief

You are a member of the programming team that is developing a program to meet the requirements in the Set Task Information.

Your manager has asked you to look at some code that a Junior Software Developer has produced but is not yet functional. The code that is not yet functioning is provided for you in the file *Task2_NonWorkingCode.txt.*

The code should meet the requirements in the Set Task Information.

Activity

You will need to use:

- the information provided in the Set Task Information
- the non-functioning code provided in the file Task2_NonWorkingCode.txt.

You must:

- produce and apply a test plan to identify the defects that are preventing the program code in the file *Task2_NonWorkingCode.txt* from functioning.
- apply a solution to fix the defects in the program code provided
- document the process that you followed to fix the code.

When applying a solution to fix the defects you must:

- ensure the code meets the requirements in the Set Task Information
- use Python 3 programming language
- follow accepted programming conventions
- test your solution to ensure that it functions as expected.

Two files are provided for use during this activity:

- Task 2_Test_Log_Template.doc
- Task2_NonWorkingCode.txt

[21 Marks]

Outcomes for submission

Save your code as PDF files **and** as .txt files.

Save your testing document as a PDF file.

All files should be saved in your folder for submission

Use this naming convention:
Task2code_[doc #]_[Registration number]_[surname]_[first letter of first name]

Task2_Test_Log_[Registration number #]_[surname]_[first letter of first name]

RBSX Group Ltd has provided you with this set of information to develop your program.

Requirements
You need to create a program that will allow the user to enter this information:

- client/investor details:
  - name
  - address
  - phone number
- amount to be invested (per month)
- the type of investment they want.

The program should then provide the user with a personalised investment quote that shows:

- customer details
- the maximum and minimum they can expect the investment to be worth after:
  - 1 year
  - 5 year
  - 10 years
- total profit in each time frame
- total fees paid in each time frame
- total taxes paid in each time frame.

Values should be formatted as currency (GBP) to 2 decimal places.

The program should be able to handle user errors.

Types of investment

Investment types offered	Information

Option 1 - Savings plans	**Maximum investment per year: £20 000**
	Predicted returns per year:
	  • 1.2% to 2.4%
	Estimated Tax:
	  • 0%
	RBSX Group Fees per month:
	  • 0.25%

Option 2 - Managed stock investments	**Maximum investment per year:** Unlimited
	Predicted returns per year:
	  • 4% to 23%
	Estimated Tax:
	  • 10% on profits above £12 000
	  • 20% on profits above £40 000
	RBSX Group Fees per month:
	  • 1.3%