**Test 2 - Test Log**

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| --- | --- | --- | --- | --- |
| **Description of test** | **Test data to be used (if required)** | **Expected outcome** | **Actual outcome** | **Comments and intended actions** |
| **Initial Run of Program to determine syntax errors** |  | **Program to run and allow initial inputs.** | **Syntax error** | **Properly indent the lines** |
| **Second Run to make sure inputs can be received** | **Name: Alex**  **Address: 6 Road Road**  **Number:**  **1234**  **Monthly Investment:**  **10**  **Option:**  **1** | **To run and get past personal detail inputs** | **Accepts inputs up to investment option, where ‘1’ creates an error** | **Change so input for amount to be invested is an integer, not string**  **From:**    **To:** |
| **Test if option 2 for investment type works** | **Name: Alex**  **Address: 6 Road Road**  **Number:**  **1234**  **Monthly Investment:**  **10**  **Option:**  **1** | **To run and create calculations as does for option 1** | **Error, calls nonexistent function** | **Change name of function when called to correct name**  **From:**    **To:** |
| **Test to verify if option 1 makes correct calculations** | **Name: Alex**  **Address: 6 Road Road**  **Number:**  **1234**  **Monthly Investment:**  **10**  **Option:**  **1** | **Run and show correct values for information** | **When showing for lowest rate of return, displays information for an additional year than listed e.g. investment worth after 1 year is actually from after 2 years, 5 years is after 6 years – it does not show 10.** | **Lower values by 1 so program functions properly**  **From:**    **To:** |
| **Test to verify there are no other issues with option 1** | **Name: Alex**  **Address: 6 Road Road**  **Number:**  **1234**  **Monthly Investment:**  **10**  **Option:**  **1** | **Run properly, no issues with option 1 calculations** | **Calculations appear working, but values are not properly formatted (wants to 2 d.p. but many are greater and some fewer)** | **For both savingsMin and savingsMax, format the numbers so they end in 2 decimal places.**  **From:**    **To:** |
| **Test error handling for Option 1, both upper and lower bounds** | **Name: Alex**  **Address: 6 Road Road**  **Number:**  **1234**  **Monthly Investment:**  **0 first, then 1,500**  **Option:**  **1** | **Run properly, ask for re-entry of inputs** | **Works properly for upper bound, but allows for a monthly investment of £0.** | **Add additional while loop that means it requests input again if monthly investment is 0** |
| **Test to verify if option 2 Makes correct calculation** | **Name: Alex**  **Address: 6 Road Road**  **Number:**  **1234**  **Monthly Investment:**  **10**  **Option:**  **2** | **Run properly and output correct values** | **Displays information, but for higher rate of return it displays incorrect values**  **(investment of £10 a month should give 146.04 for first year)** | **Wrong variable used for calculation, must be adjusted to correct one**  **From:**    **To:** |
| **Verify there are no more problems with option 2** | **Name: Alex**  **Address: 6 Road Road**  **Number:**  **1234**  **Monthly Investment:**  **10**  **Option:**  **2** | **Run and display information correctly** | **Correct info displayed, but needs to be formatted correctly (to 2 decimal places, some also display number 2 at the end)** | **Same solution as format problem for option 1, but now for stocksMin and stocksMax**  **From:**    **To:** |
| **Test error handling of option 2** | **Name: Alex**  **Address: 6 Road Road**  **Number:**  **1234**  **Monthly Investment:**  **0**  **Option:**  **2** | **Should allow value of £0 to be entered** | **Allows £0 as monthly investment** | **Same solution as for option 1, add second while loop** |
| **General Error handling test** | **Name:**  **1**  **Address:**  **1**  **Number:**  **e**  **Monthly Investment: e** | **Should account for errors in inputs throughout the rest of the code** | **Error handling for most inputs, however initial user information such as telephone and name should be adjusted to handle incorrect information** | **Telephone number adjusted so it must be correct length** |
| **Check for additional errors or other issues with the code** |  | **May identify anything from spell errors to random errors** | **Handful of spelling errors throughout the code** | **Corrected spelling mistakes/grammar** |