**Create a simple computer program to meet a set brief**

US18740 Version 6 Level 2 Credits 3

**Plan**

**For:**

**Purpose:**

**Computer Language:** Python 3.7

**Flow Chart:**

**Diagram, schematic

Description automatically generated**

**Input**: Must be an integer or float

**Output:** cash register slip

**Layout (Pseudocode):**

**Functions:**

printCenteredText(textToCentre, lineSpacesAfterText = 0, lineSpacesBeforeText = 0)

printOneCharacterAcrossTerminal(character)

addStoreInformation(listToUse)

**Procedures:**

**Lists:**

storeNames

finalStoreNamesList

daysInAWeek

incorrectStores

salesNumbersList

stores

storeTotalSales

storeTotalSalesNames

lineToPrint

**Variables:**

printAlphabeticalOrder

userInput

storeNameInput

confirmAddStoreInput

correctStore

salesNumbers

confirmSalesNumbersAreCorrect

total

gst

gstInclusive

maxValue

bestDay

minValue

worstDay

mean

average

bestPerformingSales

bestPerformingStore

worstPerformingSales

worstPerformingStore

**Stakeholder consultations:** *(at least 3)*

**Milestones:** *(at least 3)*

* Saturday 14th May 7:18PM: Store inputs have been added
* Saturday 14th May 7:26PM: Fixed bugs that wouldn’t make the while loop continue on when a user entered a wrong value by setting variable back to default value after the user entered a wrong value so the while loop conditions would be met and restart the loop
* Saturday 14th May 7:34PM: Added for loop to ask the user if all the stores in the storesList are correct
* Saturday 14th May 8PM: You can now record store revenue
* Saturday 14th May 8:06PM: All of the metrics for the store get calculated (average, mean, worst day etc.) and put into a stores dictionary
* Saturday 14th May 8:17PM: Stores now get sorted into alphabetical order or descending alphabetical order depending on what the user wanted
* Saturday 14th May 8:20PM: All stores’ values now get printed
* Saturday 14th May 8:35PM: Now a user gets asked if the sales numbers for a store are correct so if they entered it wrong they can enter the values again and make sure they are correct
* Saturday 14th 8:40PM: Calculate the best store revenue and worst store revenue and print it out
* Saturday 14th 8:43PM: If a user says all stores are incorrect so there are no more stores in the storeNames list, “bankrupt sequence” gets initiated and the program ends.
* Friday 20th May 2:34PM: Allow entering floats and ints for store revenues instead of just ints
* Friday 20th May 2:37PM: Use main() function

**Testing procedures:**

Testing procedures that I used are:

* Example data from teacher and seeing if results from my program match up with the teacher’s results
* Putting in random data and using a calculator to see if the results match up with the calculators results

**Resources used:** *(at least 2)*

Documents are help provided by the teacher

Python – 3.7

www.stackoverflow.com

**Testing:**

**Test 1 – Testing if store inputs work and if the user enters a wrong value they have to re-enter a correct value**

**What happened: If the user entered a wrong input the loop would stop because its conditions were not properly met so the code would move on even though the user hasn’t entered the values that they need to**

**How I fixed this: I set the variable back to its original value when someone enters a wrong value so the loop conditions are met**

**Test 2 – Testing if printing out store statistics work**

**What happened: print(f’Statistic name here-${value[‘statistic name here]}:' gave error ‘Unterminated expression in f-string; missing close brace’**

**How I fixed this: I set a variable with the name of the statistic to value[‘statistic name’] and then printed that variable**