Task 2 - Test Log

Description of test	Test data to be used (if required)	Expected outcome	Actual outcome	Comments and intended actions
Attempt to run the program		Program should run without error	Test 1: Invalid SyntaxError line 18 when trying to close input Test 2: No module found 'dateime' line 1 Test 3: Program ran without error	Test 1: Added additional bracket to use correct syntax y(input("Please try again, number was not valid")) Test 2: Fixed grammatical error when trying to identify invalid module name 1 import datetime Test 3:
Testing Menu: Option 1 (Sell a product)	choice = 1 (Normal)	Program should accept the user input and should display a list of available products	Test 1: Program did not accept the user input, and classed it as an invalid choice Enter your choice: 1 Invalid choice, please try again. Test 2: Program accepted the user input, but did not display a list of available products Test 3:	Program worked as expected Test 1: Adjusted logical operators to identify if the choice is higher than the number of available menu items, OR less than 0. if choice > upper_bound or choice < lower_bound: #Mistake I identified the variables by using an output, as a form of debugging, and identified the appropriate logic Test 2: Added output display to show the list of products def sell_product(): items = [] while Irue: print("Available products:\n {} \n".format(products))
Testing Menu: Entering number out of range Testing Menu: Entering	choice = 3 (Erroneous) choice = ABC	Program should not accept the input, and should display an error message Program should not accept the	Program displayed list of available products Test 1: Program does not accept the user input, and displays an appropriate error message Test 1:	Test 3: Program worked as expected Test 1: Program worked as expected Test 1:
Testing Menu: Entering number out of range when there are two menu selections	<pre>(Erroneous) choice = 3 (Erroneous) menu = {</pre>	input, and should display an error message Program should not accept the user input, and should display an error message	Program does not accept the user input, and displays an appropriate error message Test 1: Program IndexError line 108 when trying to check for an item that does not exist	Program worked as expected Test 1: The program identifies the choice after subtracting 1, because when looking in a list the index is 0 at the start
	}		Test 2: Program does not accept the user input and displays an error message	Due to the index being subtracted, I added 1 to the choice to identify its original value (the user's input) if choice + 1 > upper_bound or choice < lower_bound: Test 2: Program worked as expected

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the product name
args: i[0], i[2])

Testing Option 1 (Sell	inp = -1	Program should not allow the	Test 1:	Test 1:
product): Entering a	(Erroneous)	user to enter a negative quantity	Program accepted the negative quantity input and did not	Added else condition to cast_input_to_int_safely() function,
negative quantity		amount and should display an	display an error message	so it will check if the input is less than/equals to 0 and ask for
amount		error message		a new input
			Test 2:	try:
			Program did not allow the user to input a negative quantity and	<pre>if int(inp) > 0: return int(inp)</pre>
			displayed an error message	<pre>except: return cast_input_to_int_safely(input("Please try again, number was not valid: "))</pre>
			alsplayed all error message	else:
				return cast_input_to_int_safely(input("Please try again, number must be more than 0: "))
				Test 2:
				Program worked as expected What item would you like to buy (type 'done' to continue to checkout): Peas
				milet from mouth you time to buy (type done to continue to checknot). Feds
				Input how many of the item you would like to buy: -1 Please try again, number must be more than 0: 2
				Added item!
				Marilanda and the forest and the forest and the same transfer
				With this new change, the function will check for any inputs
				being processed, and identifies if they are more than 0,
				meaning valid. Adds additional verification
Testing Option 1 (Sell	inp = ABC	Program should not allow the	Test 1:	Test 1:
product): Entering a non-	(Erroneous)	user to enter a non-numerical	Program did not allow the user to enter a non-numerical input	Program worked as expected
numerical quantity		quantity and should display an	and displayed an error message	
amount		error message	Input how many of the item you would like to buy: ABC Please try again, number was not valid: 1	
Testing Option 1 (Sell	item = done	Program should not allow the	Test 1:	Test 1:
product): Continuing	(Normal)	user to continue to checkout	Program allowed the user to continue to checkout, despite	Added an if statement to check if the items list is empty using
straight to checkout with		when there are no products in	having no products in checkout	PEP 8 appropriate standards, and outputted an error
no products		the items list		<pre>if item == 'done': if not items:</pre>
			Test 2:	<pre>print("You must have something in the checkout to continue")</pre>
			Program did not allow the user to continue when there are no	else: break
			products in the items list	bi car
			What item would you like to buy (type 'done' to continue to checkout): done You must have something in the checkout to continue	Test 2:
				Program worked as expected
Testing Option 1 (Sell	item = DONE	Program should logically allow	Test 1:	Test 1:
product): Entering	(Extreme)	the user to continue as the input	Program assumes this input is a product, and gives an error	Modified if statement to check if the item as .lower() is the
alternative user input to		is similar to "done". Program	message for this	same as done
enter checkout		should take the next step		<pre>if item.lower() == 'done':</pre>
			Test 2:	
			Program allows the user to enter DONE, as an appropriate input	Test 2:
			and takes the user to the next step	Program worked as expected
Testing Option 1 (Sell	item = Bob	Program should not accept the	Test 1:	Test 1:
product): Choosing a	(Erroneous)	user product and should display	Program does not accept the product input, and successfully	Program worked as expected
product that is not from		an error message	displays an error message	
the list			What item would you like to buy (type 'done' to continue to checkout): 80b	
Tosting Ontion 1:	customer_number = ABC	Program should not accept the	Invalid product please type one of the following: Cheese, Potatoes, Carrots, Peas, Too: 1.	Test 1:
Testing Option 1: Entering non-numerical	(Erroneous)	input as a valid phone number	Test 1: Program accepts the non-numerical phone number and moves	Added while loop to check if the input is not numerical and to
phone number	(Endieous)	input as a valid priorie fluttibet	onto the next step without error message	display an error message
Priorie namber	1	1	outo the next steb mithout error message	מוזאומי מוז כווטו וווכיסמצכ

	T	T	T	while True
		and should display an error		customer_number = input("What is the customers phone number: ") if customer_number.isnumeric():
		message	Test 2:	<pre>customers.append([customer_forename, customer_surname, customer_address, customer_postcode break</pre>
			Program did not accept the invalid phone number input, and	else: print("You must enter a numerical phone number")
			now displays an error message when a non-numerical number is	Test 2:
			inputted	Program worked as expected
			What is the customers phone number: abc	
			You must enter a numerical phone number	
Testing Option 1:	employee_discount = Y	Program should accept the user	Test 1:	Test 1:
Entering employee	(Normal)	input and should move onto the	Program accepted the employee discount input but errored on	Defined total variable as the subtotal
discount		next step	line 77 when trying to define total with total.	total = subtotal
			77 total = total	
			Test 2:	Test 2:
			Program accepted the input and did not error when trying to	However, the program produced an error when trying to
			identify line 77 error with the total.	identify 'customerForename' as an undefined variable name.
			dentity line 77 error with the total.	I fixed this error as the convention was incorrectly named
			Test 3:	An error occurred:
				name 'customerForename' is not defined
			Program did not error when trying to identify the forename variable	
			Variable	Test 3:
				Program worked as expected
Testing Option 1:	employee_discount = N	Program should accept the user	Test 1:	Test 1:
Entering no employee discount	(Normal)	input and move onto the next step	Program accepted the user input and moved onto the next step	Program worked as expected
Testing Option 1:	employee_discount = 2	Program should not accept the	Test 1:	Test 1:
Entering invalid	(Erroneous)	user input, and should display an	Program accepts the user input and moves onto the next step	Added a while loop to check if the employee discount is not
employee discount input	(Erroneous)	error message	without an error message	equal to any of the available options and asks the user to
employee discount input		error message	without an error message	enter another input. Program displays an error message
			Test 2:	employee_discount = imput('Is the customer an employee (makes them legible for employee discount)? (Y/%) *).lower(
				<pre>while employee_discount !* "y" and employee_discount !* "n": print("You must enter an input of Y or N")</pre>
			Program does not accept the user input and displays an error	<pre>employee_discount = input("Is the customer an employee (makes them legible for employee discount)? (Y/N) ").to</pre>
			message Is the customer an employee (makes them legible for employee discount)? (Y/N) 2	employee_discount = employee_discount.lower() == "\"
			You must enter an input of Y or N	Test 2:
			Is the customer an employee (makes them legible for employee discount)? (Y/N)	Program worked as expected
Tosting Ontion 1: Doos	item = Cheese	The program should output	Tort 1:	Test 1:
Testing Option 1: Does the program output the	inp = 2	correct customer details and an	Test 1: Program successfully outputs the correct customer information,	Updated the date format to follow the DD/MM/YYY format
correct customer details	πρ – 2	appropriate receipt. Program	including the items bought (and cost), subtotal	strftime("%d.%m.%Y %H:%M:%S")
and receipt?	customer_forename = Bob	should not display any errors that	mendanig the items bought (and cost), subtotal	ner_postcode,
and receipt:	customer_forename = Bob customer_surname = Test	interrupt the result or	Program error occurred when trying to open a txt file with	str(total), str_items]
	customer_address = 123	functionality of any logic	incorrect date formats prior to being opened. The program has	strftime("%d.%m.%Y %H:%M:%S ")
	customer_address = 123 customer_postcode = ABC	lanctionanty of any logic	contradictory date formats	
	customer_postcode = ABC customer_number = 07		e("%d.%m.%Y %H:%M:%S"),	Test 2:
	(Normal)		code,	To mitigate this issue, I altered the format to not use colons.
	(1401111a1)		_), str_items]	Files are not allowed to have colons in them, so I used the
			("%Y.%m.%d %H:%M:%S") +	following format: DD-MM-YYYY HH.MM.SS
			Test 2:	<pre>receipt = [datetime.datetime.now().strftime("%d-%m-%Y %H.%M.%S"),</pre>
			Program identifies invalid argument again when trying to	<pre>customer_number, "£" + str(total), str_items]</pre>
			identify the text file	with open(datetime.datetime.now().strftime("%d-%m-%Y %H.%M.%S") +
			racinary are text me	

				Test 3:
			Test 3:	Updated if statement to check if the subtotal is more than 25
			Program correctly outputs customer details, and an appropriate	and not less than/equals to. Updated discounts
			receipt. Program did not display any errors, however the spent	if subtotal > 25:
			over £25 discount was applied incorrectly, but also with an	discounts = {
			incorrect percent off	'staff': 5,
			<pre>if subtotal <= 25:</pre>	'over25': 16,
				}
			Test 4:	Test 4:
			Program outputs correct details and customer discount based	Program worked as expected
			on subtotal	
Testing Option 1: Does	employee_discount = Y	Program should calculate 5% off	Test 1:	Test 1:
the program calculate the	(Normal)	the total order for employees	Program correctly calculated 5% off the total order for an	Program worked as expected
correct employee		and should display the correct	employee and displayed the following	
discount		outputs	5 Cheese (TOTAL: £5.00)	
			Subtotal: £5.00	
			Employee discount: -5% Total: £4.75	
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Testing Option 1: Does		Program should calculate 10% off the total order for customers	Test 1: Program correctly calculated 10% off the total order, when the	Test 1:
the program calculate the correct customer		that spend more than £25 and	subtotal was higher than 25 and outputted the final total	Program worked as expected
discount for orders more		should display the outcome for	1 Cheese (TOTAL: £1.00)	
than £25		final total	30 Potatoes (TOTAL: £30.00)	
tilali 123		illiai totai	Subtotal: £31.00	
			Spend over £25 discount: -10% Total: £27.90	
Testing Oution 1: Doos		Drogram antiqually can give	Test 1:	Test 1:
Testing Option 1: Does the program give a		Program, optionally, can give both discounts and should	Program calculates the discounts correctly, with the employee	Program worked as expected
discount to employees if		calculate the result. The program	discount being calculated first, followed by the over £25	Program worked as expected
the conditions for a		should calculate the employee	discount	
customer discount are		discount first and the over 25	Subtotal: £35.00	
met?		discounts after	Employee discount: -5%	
illet:		discounts after	Spend over £25 discount: -10%	
			Total: £29.93	
Testing Option 1: Does		Program should create and	Test 1:	Test 1:
the program write the		append to a new text file with	Program successfully writes to a new text file with the receipt	Changed file.write to make use of .format() to process the
receipt to a new file		the receipt details in an	information, however it is not readable in its current format	information in a readable way
correctly?		informative way	21-11-2024 20.52.04	$\label{line:proposed-file:mile: lambda} \emph{file:write('\nDate and Time: {}\nPorename: {}\nAddress: {}\nPostcode: {}\nPhone Number of the lambda} \emph{file:write('\nDate and Time: {}\nPorename: {}\nAddress: {}\nPostcode: {}\nPhone Number of the lambda} \emph{file:write('\nDate and Time: {}\nPhone Number of the lambda} file:write('\nDate and Time: {$
,			A A	'Total: £{}\nItems: {}'.format('args: receipt[0], customer_forename, customer_surname, customer_address, customer_postcode, customer_number, to
			a	
			1	Test 2:
			♦2 Peas(2)	Program worked as expected
			Test 2:	
			Program outputs the information in a more formatted, readable	
			way	
	1	ı	1	1

Date and Time: 21-11-2024 20.56.22	
Forename: Bob	
Surname: Test	
Address: 123	
Postcode: ABC	
Phone Number: 07	
Total: ♦2	
<pre>Items: Cheese(1),Peas(1)</pre>	