Unit 4 2022 Mock Lawn

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TEST PLAN 1

11 normal, 8 extreme and 7 boundary tests

Test No	Purpose of test	Test Data	Expected result
1	normal testing	Run code to see if name can be inputted	Should allow user to enter name
2	normal testing	Run code to see if the address can be inputted	Code should let the user type their address
3	normal testing	Run code to see if number can be inputted	Code will ask for number from the user
4	normal testing	Does code display variables in a list	Code should say customer details and print out the following
5	normal testing	Check code if user can enter width of lawn	Should let user enter an integer value
6	normal testing	Check code if user can enter width of lawn	Should let user enter an integer value
7	normal testing	Does code display variables for the surface in a list	Code should say lawn details and print out the values from the variable's length and width
8	normal testing	Does list for quality details display	Code should run all the options for qualities and the price per square metre

9	Normal tested	Can user enter an input for their choice of quality	Should allow user to enter a number 1 2 or 3
10	normal testing	Does the code show how much per square metre cost	Code should say the amount per square metre
11	Normal testing	Does code print a summary of all the costs	Bottom of code should display the vat subtotal and final total with vat
12	Extreme testing	Checking what happens if name is left empty	Code should repeat in a while loop until there is an input
13	Extreme testing	Checking what happens if the address is left empty	Code should repeat in a while loop until there is an input
14	Extreme testing	Checking what happens if the number is left empty	Code should repeat in a while loop until there is an input
15	Extreme testing	What happens when entry of length is too much	Should repeat over again un till it meets the range
16	Extreme testing	What happens when entry of width is too much	Code should repeat until it matches the range

17	Extreme testing	What happens when entry of length is too less	Code shall keep repeating until the user enters in the range
18	Extreme testing	What happens when entry of length is too less	Code shall keep repeating until the user enters in the range
19	Extreme testing	What happens if the user enters out of range 1 2 or 3 for the quality of lawn	Code shall keep repeating until the user enters in the range
20	Boundry testing	What happens if we get a 30 width by 50 length and luxury quality	The bill at the end of the code will be displayed and the total will be high
21	Boundry testing	What happens if we get a 2 width by 2 length economy quality	The total will be low but not the lowest possible
22	Boundry testing	What happens if we get a 30 width by 50 length and standard quality	Cost will be high but not the highest possible
23	Boundry testing	What happens if we get a 2 width by 2 length standard quality	The total will be low but not the lowest possible
24	Boundry testing	What happens if we get a 30 width by 50 length and economy quality	Cost will be high but not the highest possible
25	Boundry testing	What happens if we get a 2 width by 2 length economy quality	This will be the lowest possible cost

26	Boundry	What happens if we go	The result of this will be the midpoint of all
	testing	for the medium and get	code
		14 widths by 28 and	
		standard	

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TEST PLAN 2 with code and comments included

11 normal, 8 extreme and 7 boundary tests

Test	Purpose	Test Data	Expected result	Actual code	Comment
No	of test				
1	normal testing	Run code to see if name can be inputted	Should allow user to enter name	customer details Enter your name: Mahin	<pre>#prints of print(" #variable name = inp #Variable input for u</pre>
2	normal testing	Run code to see if the address can be inputted	Code should let the user type their address	Enter your address: 22 green st	address = i #Variable an input fo
3	normal testing	Run code to see if number can be inputted	Code will ask for number from the user	Enter your phone number: 077328372	#Variable an input fo
4	normal testing	Does code display variables in a list	Code should say customer details and print out the following	Customer details: ['mahin', '22 green st', '077328372']	CustomerD #value as CustomerD #value as CustomerD print("Custom
5	normal testing	Check code if user can enter width of lawn	Should let user enter an integer value	Enter the width of your lawn number: 12	width = int(#Creates a variable w

6	normal	Check code if	Should let user enter	Enton the length of your law numbers 24	length = int(
6	normal testing	user can enter width of lawn	an integer value	Enter the length of your lawn number: 24	#Creates a
7	normal testing	Does code display variables for the surface in a list	Code should say lawn details and print out the values from the variable's length and width	Lawn details: [12, 24]	LawnDeta #value a LawnDeta print("Law
8	normal testing	Does list for quality details display	Code should run all the options for qualities and the price per square metre	quality details 1 = luxury : 1.15 2 = standard : 0.8 3 = economy : 0.45	Quality
9	Normal tested	Can user enter an input for their choice of quality	Should allow user to enter a number 1 2 or 3	please choose an appropriate number from the list above:1	<pre>quality_choice = #Varaible made and integer va</pre>
10	normal testing	Does the code show how much per square metre cost	Code should say the amount per square metre	per square metre cost £1.15	print("per #will print metre
11	Normal testing	Does code print a summary of all the costs	Bottom of code should display the vat subtotal and final total with vat	price details 1.15 is the price per square metre your lawn in square metres is 288 labour charge for total surface is 144.0 total amount for 288 m is luxury is 331.2 sub total is 475.2 95.04 is ur VAT charge total charge with VAT is 570.24 . □	subtotal = sub print("sub to vat = 2 #varaib vatchar total = sub #outputs to print("total
12	Extreme testing	Checking what happens if name is left empty	Code should repeat in a while loop until there is an input	customer details Enter your name: Enter your name :	while name #variabl name = i #variabl length = #variabl name_cou # Code ch if it is less

13	Extreme testing	Checking what happens if the address is left empty	Code should repeat in a while loop until there is an input	Enter your address: Enter your address: Enter your address: Enter your address: 22 green st Enter your phone number:	while address #wartable address = #wartable length2 = #wartable address_co # Code ch if it is less
14	Extreme testing	Checking what happens if the number is left empty	Code should repeat in a while loop until there is an input	Enter your phone number: Enter your phone number: Enter your phone number: Enter your phone number: 0382038283	white number number = in length3 = l avariable of number_coun # Code ch if it is less
15	Extreme testing	What happens when entry of length is too much	Should repeat over again un till it meets the range	Enter the width of your lawn number: 99 Enter the length of your lawn number: 99 width must be between 2 and 30 Enter the width of your lawn number: 12 length must be between 2 and 50 Enter the length of your lawn number: 14	while length #prints out print("leng #creats a i length = in
16	Extreme testing	What happens when entry of width is too much	Code should repeat until it matches the range	Enter the width of your lawn number: 99 Enter the length of your lawn number: 99 width must be between 2 and 30 Enter the width of your lawn number: 12 length must be between 2 and 50 Enter the length of your lawn number: 14	while width #prints ou print("wid #creates a width = in
17	Extreme testing	What happens when entry of length is too less	Code shall keep repeating until the user enters in the range	surface details Enter the width of your lawn number: 1 Enter the length of your lawn number: 1 width must be between 2 and 30 Enter the width of your lawn number: 3 length must be between 2 and 50 Enter the length of your lawn number: 5	while length #prints out print("leng #creats a length = in
18	Extreme testing	What happens when entry of length is too less	Code shall keep repeating until the user enters in the range	surface details Enter the width of your lawn number: 1 Enter the length of your lawn number: 1 width must be between 2 and 30 Enter the width of your lawn number: 3 length must be between 2 and 50 Enter the length of your lawn number: 5	while width #prints ou print("wid #creates a width = in
19	Extreme testing	What happens if the user enters out of range 1 2 or 3 for the quality of lawn	Code shall keep repeating until the user enters in the range	please choose an appropriate number from the list above: retry please choose an appropriate number from the list above:	#output a messaç

	Ι	T	Γ	price details	
20	Boundry testing	What happens if we get a 30 width by 50 length and luxury quality	The bill at the end of the code will be displayed and the total will be high	price details 1.15 is the price per square metre your lawn in square metres is 1500 labour charge for total surface is 750.0 total amount for 1500 m is luxury is 1724.99 sub total is 2475.0 495.0 is ur VAT charge total charge with VAT is 2970.0	square = length #prints a wars print("your law #creates a varial labour = 0.5 #creates varial labourtotal = s #displays the print("labour c #varaible squat square_total_cl #outputs total print("total ar vat = 20 / 1 #varaible va vatcharge = #displayes t print(vatcha #total = subt soutputs total soutputs total = subt #total = subt soutputs total
21	Boundry testing	What happens if we get a 2 width by 2 length luxury quality	The total will be low but not the lowest possible	price details 1.15 is the price per square metre your lawn in square metres is 4 labour charge for total surface is 2.0 total amount for 4 m is luxury is 4.6 sub total is 6.6 1.32 is ur VAT charge total charge with VAT is 7.92	print("total square = length yellis a series print("your law "creates a var- labour = 0.5 "creates variat labourtotal = s print("labour co "varable square_total_ci print("total ar vat = 20 / 1 "varable va vatcharge = "displayes v print(vatcha "total = subt "outputs total "outputs total
22	Boundry testing	What happens if we get a 30 width by 50 length and standard quality	Cost will be high but not the highest possible	price details 0.8 is the price per square metre your lawn in square metres is 1500 labour charge for total surface is 750.0 total amount for 1500 m is standard is 1200 sub total is 1950.0 390.0 is ur VAT charge total charge with VAT is 2340.0	print("total square = length forints a mess print("your law screets a variation labour = 0.5 screets variation labour total = s print("labour co square_total_co square_total_co print("total an vat = 20 / 1 svariable va vatcharge = #displayes to print(vatcha #total = subt soutputs total print("total is soutputs total

23	Boundry testing	What happens if we get a 2 width by 2 length standard quality	The total will be low but not the lowest possible	price details 0.8 is the price per square metre your lawn in square metres is 4 labour charge for total surface is 2.0 total amount for 4 m is standard is 3.2 sub total is 5.2 1.04 is ur VAT charge total charge with VAT is 6.24	square = length drints a mean print("your lan print("your lan dronates varies a var labour = 0.5 versates varies displays the print("labour variable squa square_total_ci print("total ar vat = 20 / 1 avariable va vatcharge = displayes varies print(vatcha total = subt soutputs total
24	Boundry testing	What happens if we get a 30 width by 50 length and economy quality	Cost will be high but not the highest possible	price details 0.45 is the price per square metre your lawn in square metres is 1500 labour charge for total surface is 750.0 total amount for 1500 m is economy is 675.0 sub total is 1425.0 285.0 is ur VAT charge total charge with VAT is 1710.0	print("total square = length s
25	Boundry	What happens if we get a 2 width by 2 length standard quality	This will be the lowest possible cost	price details 0.45 is the price per square metre your lawn in square metres is 4 labour charge for total surface is 2.0 total amount for 4 m is economy is 1.8 sub total is 3.8 0.76 is ur VAT charge total charge with VAT is 4.56	print("total square = length prints = mess print("your law #creates = varia labour = 0.5 #creates varia labour = 0.5 #variable square square_total_co print("total an vat = 20 / 1 #variable va vatcharge = #displayes v print(vatcha #total = subt #outputs tot print("total in total = subt #outputs total

26	Boundry testing	What happens if we go for the medium and get 14 widths by 28 and standard	The result of this will be the midpoint of all code	price details 0.8 is the price per square metre your lawn in square metres is 392 labour charge for total surface is 196.0 total amount for 392 m is standard is 313.6 sub total is 509.6 101.9200000000000002 is ur VAT charge total charge with VAT is 611.52	square = lengt print("your la "creates varia labour = 0.5 "creates varia labourtotal = sdisplays the print("labour "variable squa square_total_c "outputs total print("total a vat = 20 / : "variable variable squa vatcharge = "displayes" print(vatcha "total is mu total = subi
					<pre>print("total</pre>