**PROGRAM TESTING**

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| **Test Cases** | **Test Objectives** |
| Case 1 | To check when entering Customer type as Regular : “R” (Case Sensitive) , the total final bill amount. |
| Case 2 | To check when entering Customer type as Special : “S” (Case Sensitive) , the total final bill amount must be with 10% discount. |
| Case 3 | To check when entering Customer type other than “R” or “S”. Program should warn to enter correct Customer Type. |
| Case 4 | To check by enter the product number for desired product. |
| Case 5 | To check if product cost is less than 10 , then program should warn to enter correct product cost . |
| Case 6 | To check if product cost is greater than 10 , then what should be the output of bill amount. (Only greater than 10 acceptable) |
| Case 7 | To check if entered product quantity is less than 1 , then program should warn as “Invalid input” as only 1 to 100 is acceptable. |
| Case 8 | To check if entered product quantity is greater than 100 , then program should warn as “Invalid input” as only 1 to 100 is acceptable. |

Test Case

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| **Test Case** | 1 |
| **Objectives** | To check when entering Customer type as Regular : “R” (Case Sensitive) , the total final bill amount. |
| **Test data** | Before print the final bill amount, program requires the customer type either Regular “R” or Special “S” (Case sensitive) |
| **Expected results** | If customer is Regular , then it will print the final amount after calculating the products amount. But if we enter rather than R or S, then it will print Invalid input and ask for Re-enter customer type. |
| **Before test** | Test case 1.PNG |
| **After test** | Test case 1 output.PNG |
| **Conclusion** | Test Successful !! |

Test Case

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| **Test Case** | 2 |
| **Objectives** | To check when entering Customer type as Special : “S” (Case Sensitive) , the total final bill amount must be with 10% discount. |
| **Test data** | Before print the final bill amount, program requires the customer type either Regular “R” or Special “S” (Case sensitive) |
| **Expected results** | If customer is Special , then it will print the final amount after calculating the products amount with 10% discount. But if we enter rather than S, then it will print amount as per Regular customer and print “Invalid” if invalid input. |
| **Before test** | Test case 1.PNG |
| **After test** | Test case 1 output.PNG |
| **Conclusion** | Test Successful !! |

Test Case

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| **Test Case** | 3 |
| **Objectives** | To check when entering Customer type other than “R” or “S”. Program should warn to enter correct Customer Type. |
| **Test data** | Before print the final bill amount, program requires the customer type either Regular “R” or Special “S” (Case sensitive) |
| **Expected results** | If customer is Special , then it will print the final amount after calculating the products amount with 10% discount. But if we enter “R”, then it will print amount as per Regular customer and print “Invalid” if other input entered. |
| **Before test** | Test case 1.PNG |
| **After test** | Test case 1 output.PNG |
| **Conclusion** | Test Successful !! |

Test Case

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| **Test Case** | 4 |
| **Objectives** | To check by enter the product number for desired product. |
| **Test data** | User need to input the product code for each product for the billing. Product code can be anything. |
| **Expected results** | If product code is entered after selection of Regular/Special customer, it will ask for product cost and then product quantity. After calculating, the final amount of bill will be displayed. |
| **Before test** | Test case 1.PNG |
| **After test** | Test case 1 output.PNG |
| **Conclusion** | Test Successful !! |

Test Case

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| **Test Case** | 5 and 6 |
| **Objectives** | To check if product cost is less than 10 , then program should warn to enter correct product cost . |
| **Test data** | User need to input the product cost must be greater than 10, otherwise program will give error as “You have entered wrong input.” |
| **Expected results** | After entering product cost greater than 10, it will ask for product quantity and final amount will be displayed. If we enter less than 10, then output will be as wrong input and it will ask for re-enter the cost. |
| **Before test** | Test case 1.PNG |
| **After test** | Test case 1 output.PNG |
| **Conclusion** | Test Successful !! |

Test Case

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| **Test Case** | 7 |
| **Objectives** | To check if entered product quantity is less than 1 , then program should warn as “Invalid input” as only 1 to 100 is acceptable. |
| **Test data** | User need to input the product quantity between 1 to 100. If we enter product quantity less than 1, then error will be displayed. |
| **Expected results** | After entering the product quantity between 1 to 100, it will calculate the final amount as per the inputs. But if we enter product quantity less than 1 (0) , then it will display “Please enter integer product quantity between 1 to 100” |
| **Before test** | Test case 1.PNG |
| **After test** | Test case 1 output.PNG |
| **Conclusion** | Test Successful !! |

Test Case

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| **Test Case** | 8 |
| **Objectives** | To check if entered product quantity is greater than 100 , then program should warn as “Invalid input” as only 1 to 100 is acceptable. |
| **Test data** | User need to input the product quantity between 1 to 100. If we enter product quantity greater than 100, then error will be displayed. |
| **Expected results** | After entering the product quantity between 1 to 100, it will calculate the final amount as per the inputs. But if we enter product quantity greater than 100 , then it will display “Please enter integer product quantity between 1 to 100” |
| **Before test** | Test case 1.PNG |
| **After test** | Test case 1 output.PNG |
| **Conclusion** | Test Successful !! |