Test Case 1: Testing without Setting Up Shop. Values **2, 3, 4, 5, -2, 0**

Test Case 2: Setup shop with 3 items, perform buy, List items, Checkout & Exit

1. Testing without setting up Shop. Values **3, -5, 2**
2. Entering function value **1** [Setting up shop]
   1. Created **3** Items:
      1. Name: **sugar**, Price: **10** (buy “3” get 1 free / x = **3**)
      2. Name: **salt**, Price: **20** (No Offer / x = **0**)
      3. Name: **milk**, Price: **30** (buy “4” get 1 free / x = **4**)
   2. Qualification for additional discount: **100**
   3. Additional discount rate: **3**
   4. corrected value = **.2**
3. Entering function value **3** (before buying)
4. Entering value **2** [Buying Items]
   1. Amount of sugar **10**
   2. Amount of salt **0**
   3. Amount of milk **20**
5. Entering function value **3** [Listing Items bought]
6. Entering function **value** **4** [Checkout]
7. Entering value for re-run [value = **0**]

Test Case 3: Setup shop with 3 items, buy twice, list items, checkout & Exit

1. Entering function value **1**
   1. Created **3** Items:
      1. Name: **candy**, Price: **10** (buy “1” get 1 free / x = **1**)
      2. Name: **tomatoes**, Price: **20** (buy “2” get 1 free / x = **2**)
      3. Name: **paper**, Price: **30** (buy “3” get 1 free / x = **3**)
   2. Qualification for additional discount: **0**
2. Entering function value **2**
   1. Amount of candy **0**
   2. Amount of tomatoes **0**
   3. Amount of paper **0**
3. Entering function value **3**
4. Entering function value **2** (again)
   1. Amount of candy **1**
   2. Amount of tomatoes **1**
   3. Amount of paper **1**
5. Entering function value **3** (listing items)
6. Entering function value **4** (check out)
7. Entering value for re-run [value = **0**]

Test Case 4: Setup shop with 2 items, buy, setup shop again with 3 items, buy, list items, checkout & Exit

1. Entering function value **2** (before setup)
2. Entering function value **1** (setup)
   1. Created **2** Items:
      1. Name: **bag**, Price: **40** (buy “4” get 1 free / x = **4**)
      2. Name: **glasses**, Price: **50** (buy “5” get 1 free / x = **5**)
   2. Qualification for additional discount: **200**
   3. Additional discount rate: **.3**
3. Entering function value **2** (buying items)
   1. Amount of bag **-4**
      1. Re-entering value -2
      2. Re-entering value 12
   2. Amount of glasses **-5**
      1. Re-entering value 15
4. Entering function value **1** [Setting up shop again]
   1. Created **3** Items:
      1. Name: **pillow**, Price: **11.50** (buy “4” get 1 free / x = **4**)
      2. Name: **pens**, Price: **14.43** (buy “5” get 1 free / x = **5**)
      3. Name: **pencils**, Price: **2.25** (buy “6” get 1 free / x = **6**)
   2. Qualification for additional discount: **100**
   3. Additional discount rate: **.25**
5. Entering function value **2** [buying items again]
   1. Amount of pillow **12**
   2. Amount of pens **14**
   3. Amount of pencils **20**
6. Entering function value **3** [listing items]
7. Entering function value **4** [check out]
8. Entering value for re-run [value = **0**]

Test Case 5: Setup shop with 1 item, checkout before buying item, list before buying item, buy, list, checkout, re-run, setup shop again with 2 items, buy, list items, checkout & Exit

1. Entering function value **1** (setup)
   1. Created **1** Items:
      1. Name: **soap**, Price: **30** (buy “4” get 1 free / x = **4**)
   2. Qualification for additional discount: **50**
   3. Additional discount rate: **.3**
2. Entering function value **4** (Checkout before buying item)
3. Entering function value **3** (Listing before buying item)
4. Entering function value **2** (buying item)
   1. Amount of soap **3**
5. Entering function value 3 (listing)
6. Entering function value 4 (checkout)
7. Entering value for re-run [value = **1**]
8. Entering function value **1** (setup)
   1. Created **2** Items:
      1. Name: **charger**, Price: **50** (buy “2” get 1 free / x = **2**)
      2. Name: **headset**, Price: **30** (buy “1” get 1 free / x = **1**)
   2. Qualification for additional discount: **100**
   3. Additional discount rate: **.5**
9. Entering function value **2** (buying items)
   1. Amount of Charger **4**
   2. Amount of headset **2**
10. Entering function value **3** (listing)
11. Entering function value **4** (checkout)
12. Entering value for re-run [value = **0**]