Temperature Converter

C and F Temperature Converter – Algorithm in words

1. Print a message to tell user that this is a Temperature converter program.
2. Print a message showing the two choices the user can choose from:
   1 for converting Celsius to Fahrenheit
   2 for converting Fahrenheit to Celsius
3. Create 3 variables, **CHOICE**, **TEMP** and **ANSWER** (ANSWER and TEMP should be of type **float,** CHOICE of type **int**)
4. Then ask the user to enter their **CHOICE**.
5. Check is **CHOICE** is 1…
   - Then take input of temperature in variable TEMP from user.
   - Calculate the temperature in Fahrenheit using the following formula and
   - storing the answer in variable **ANSWER** as follows:
     - **ANSWER = (TEMP * 1.8) + 32**
   - Print a message to show the Temperature in Fahrenheit by outputting variable **ANSWER**
6. **Else** do the following (which means user's choice is 2):
   - Then take input of temperature in variable TEMP from user.
   - Calculate the temperature in Fahrenheit using the following formula and
   - storing the answer in variable **ANSWER** as follows:
     ANSWER = (TEMP - 32)/ 1.8
   - **Print a message to show the Temperature in Centigrade by outputting variable ANSWER.**
7. End the Program
8. **Additional bonus task:** in Point 6 you can also check that is the user did not enter choice 1 then did he enter only choice 2 or some wrong choice… then you will check if choice == 2 then do the above processing, otherwise output message "Invalid Choice" and end the program.

Shopping bill Calculator

Shopping Bill Calculator – Algorithm in words

You can make a shopping bill calculator for item from minimum 3 to maximum 5

1. Print a message to tell user that this is a shopping bill calculator program.
2. Depending on whether you are taking 3 item or 5 items **PRICE** and **QUANTITY** from the user, you will do the following:
9. You will create 03 variables, **PRICE**, **QUANTITY** and **TOTAL.** (PRICE and TOTAL should be of type **float**, QUANTITY of type **int**)
3. Ask user for **PRICE** and **QUANTITY** of item 1.
4. Multiply **PRICE** of item with **QUANTITY** and add the answer to the **TOTAL.**

   The formula is:

   TOTAL = TOTAL + (PRICE * QUANTITY)
5. Then depending on how many items you have (from 3 min - 5 max)…ask user each time to give you the **PRICE** and **QUANTITY.** (i.e. for item 2, item 3 and so on again and again)
6. Each time multiple both **PRICE** and **QUANTITY** and add the answer to the **TOTAL**.
7. In the end output the value of **TOTAL** which is the total bill.