

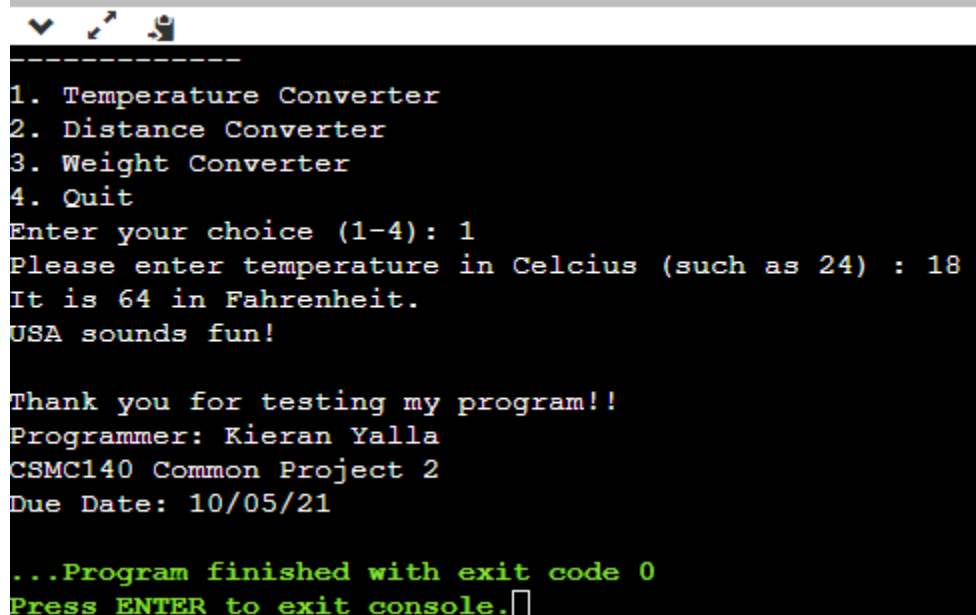
Kieran Yalla

Programming Project 2

```
// Kieran Yalla
// Class: CMSC140 CRN
// Instructor: Professor Koo
// Programming Project 2
// Write a program that presents itself and interacts with the user, using country and 2 numbers
as inputs
// I pledge that I have completed the programming assignment independently.
// I have not copied the code from a student or any source.
// I have not given my code to any student.
// Print your Name here: Kieran Yalla
```

Test Case #	Input	Actual Input	Expected Output	Actual Output	Did the test pass?
1	USA Choice 1 Temp 18	USA 1 18	64	It is 64 in Fahrenheit. USA sounds fun!	Yes
2	India Choice 2 Distance -5	India 2 -5	Error message	Distance should not be negative. India sounds fun!	Yes
3	Japan Choice 3 Kilograms 78	Japan 3 78	171.6	It is 171.6 in pounds. Japan sounds fun!	Yes
4	Mexico Choice 4	Mexico 4	Program stops	Mexico sounds fun!	Yes

TEST #1:



```
-----
1. Temperature Converter
2. Distance Converter
3. Weight Converter
4. Quit
Enter your choice (1-4): 1
Please enter temperature in Celcius (such as 24) : 18
It is 64 in Fahrenheit.
USA sounds fun!

Thank you for testing my program!!
Programmer: Kieran Yalla
CMSC140 Common Project 2
Due Date: 10/05/21

...Program finished with exit code 0
Press ENTER to exit console.
```

TEST #2:

```
-----
1. Temperature Converter
2. Distance Converter
3. Weight Converter
4. Quit
Enter your choice (1-4): 2
Please enter distance in Kilometers (such as 18.54) : -5
Distance should not be negative
India sounds fun!

Thank you for testing my program!!
Programmer: Kieran Yalla
CSMC140 Common Project 2
Due Date: 10/05/21

...Program finished with exit code 0
Press ENTER to exit console.
```

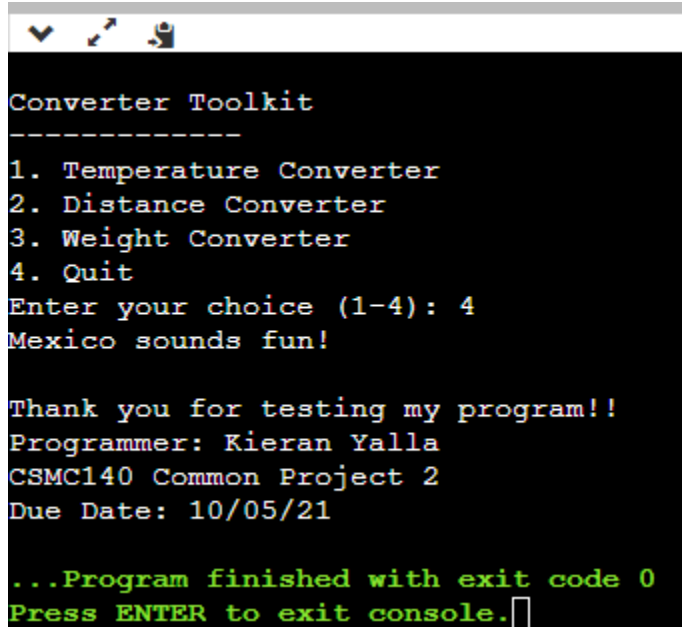
TEST #3:

```
-----
1. Temperature Converter
2. Distance Converter
3. Weight Converter
4. Quit
Enter your choice (1-4): 3
Please enter weight in Kilograms (such as 81.4) : 78
It is 171.6 in pounds.
Japan sounds fun!

Thank you for testing my program!!
Programmer: Kieran Yalla
CSMC140 Common Project 2
Due Date: 10/05/21

...Program finished with exit code 0
Press ENTER to exit console.
```

TEST #4:



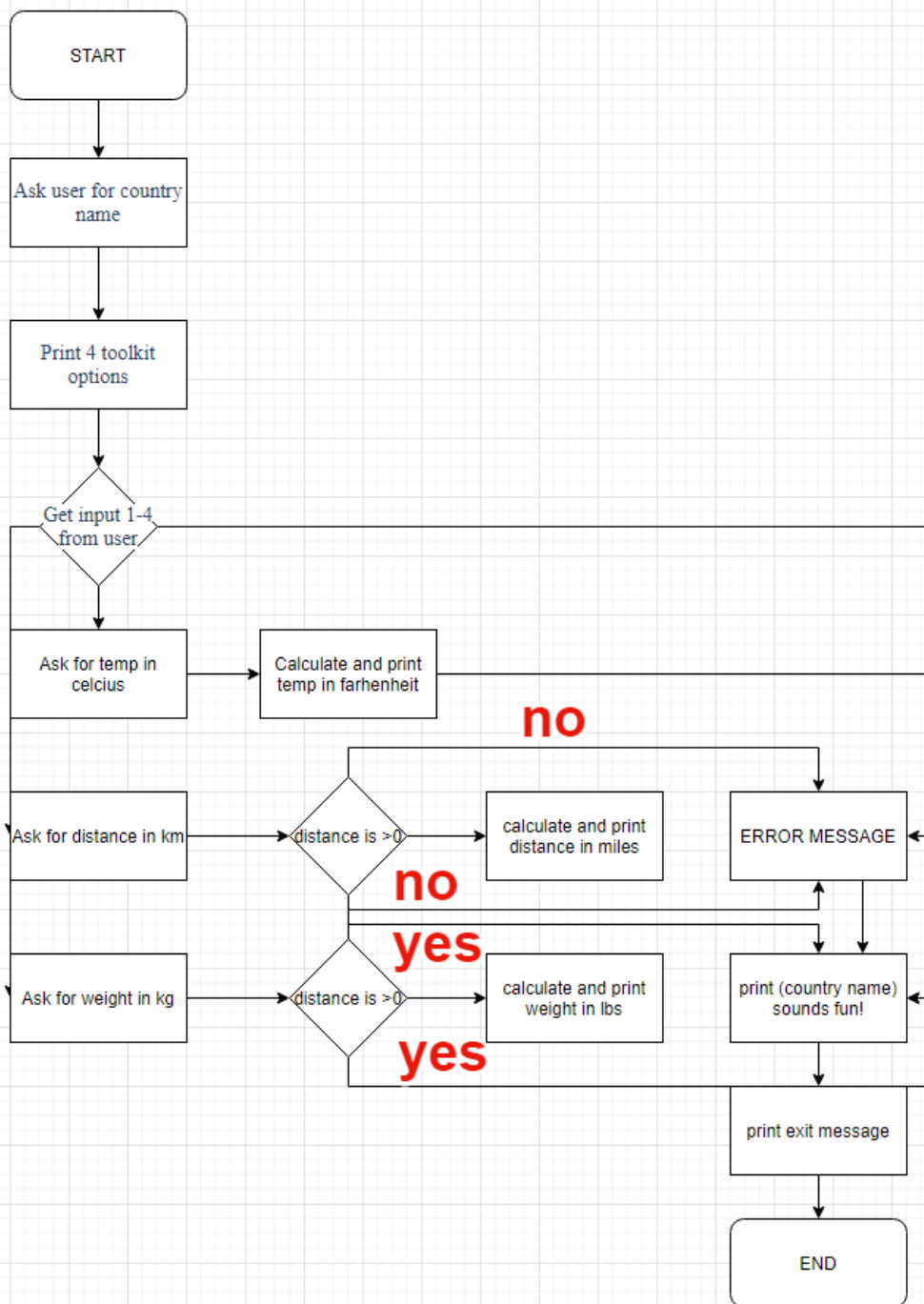
```
Converter Toolkit
-----
1. Temperature Converter
2. Distance Converter
3. Weight Converter
4. Quit
Enter your choice (1-4): 4
Mexico sounds fun!

Thank you for testing my program!!
Programmer: Kieran Yalla
CSMC140 Common Project 2
Due Date: 10/05/21

...Program finished with exit code 0
Press ENTER to exit console.
```

PSEUDO CODE:

1. START
2. Ask user for country
3. Print 4 toolkit options
4. Get input 1-4 from user
 - If Input is not 1-4 then error and restart program
 - If input is 1 then ask for temp in celsius
 - Get input from the user then print "(country name) sounds fun!" then proceed to step 5
 - If input is 2 then ask for distance in km
 - Get input from user
 - If input <0 print error message then proceed to step 5
 - Calculate and print distance in miles
 - If input is 3 ask for weight in kg
 - Get input from user
 - If input <0 print error message then proceed to step 5
 - Calculate and print weight in lbs
5. Print "(country name) sounds fun!"
6. Print exit message
7. Exit program



Lesson Learned:

- **Infinite loops: While loops are very useful for menus when you need the user to return to the same menu, either because he needs to or because he chose a wrong option. However, you need to be careful of the logic to end exit the while loop or you will find yourself in an infinite loop.**
- **The code in the switch part could be simplified with functions, in order to be more readable and in that way, allowing the while loop logic to be clearer.**