**Exercise 7: User Input and While Loops**

Please work through as many of the following exercises as you’re able to in the allotted time and upload the results of the last task you were able to complete**.**

1. Write a program that asks the user what kind of rental car they would like. Print a message about that car, such as “Let me see if I can find you a Subaru.”
2. Write a program that asks the user how many people are in their dinner group. If the answer is more than eight, print a message saying they’ll have to wait for a table. Otherwise, report that their table is ready.
3. Ask the user for a number, and then report whether the number is a multiple of 10 or not.
4. Write a loop that prompts the user to enter a series of pizza toppings until they enter a 'quit' value. As they enter each topping, print a message saying you’ll add that topping to their pizza.
5. A movie theater charges different ticket prices depending on a person’s age. If a person is under the age of 3, the ticket is free; if they are between 3 and 12, the ticket is $10; and if they are over age 12, the ticket is $15. Write a loop in which you ask users their age, and then tell them the cost of their movie ticket.
6. Write a loop that never ends, and run it (if you dare!). (To end the loop, press ctrl-C or close the window displaying the output.)

**Stretch and Challenge**

If you complete the previous steps within the allotted time please move on to the following.

1. Make a list called sandwich\_orders and fill it with the names of various sandwiches. Then make an empty list called finished\_sandwiches. Loop through the list of sandwich orders and print a message for each order, such as I made your tuna sandwich. As each sandwich is made, move it to the list of finished sandwiches. After all the sandwiches have been made, print a message listing each sandwich that was made.

* Using the list sandwich\_orders from Exercise 7-8, make sure the sandwich 'pastrami' appears in the list at least three times. Add code near the beginning of your program to print a message saying the deli has run out of pastrami, and then use a while loop to remove all occurrences of 'pastrami' from sandwich\_orders. Make sure no pastrami sandwiches end up in finished\_sandwiches.

1. Write a program that polls users about their dream vacation. Write a prompt similar to If you could visit one place in the world, where would you go? Include a block of code that prints the results of the poll.