

# Python – Mandalorian

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## Purpose

This lab was designed to teach you how to use while loops and conditionals in python.

## Description

You are the Mandalorian on the desert planet Arvala-7. You have 200 miles to reach your ship but there are criminals and mercenaries chasing you. Currently the mercenaries are 20 miles behind you and desperately want baby yoda back. Fortunately, you have stolen a Blurrg to speed up your travels. You have the following choices:

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Add the following variables to your program:

```
miles_traveled = 0
thirst = 0
blurrg_tired = 0
drinks_in_canteen = 10
mercenaries_distance = -20
```

Below are the effects for the different choices.

A. Drink from your canteen:

- The mercenaries gain a random distance between 7 and 13 inclusive.
- If you have drinks available, decrement drinks by 1 and set thirst to 0, otherwise print("Error! No drinks available").

B. Ahead moderate speed.

- The mercenaries gain a random distance between 7 and 13 inclusive.
- You move forward a random distance between 5 and 12 inclusive.
- Blurrg's tiredness is incremented by 1.
- Your thirst is incremented by 1.

C. Ahead full speed.

- The mercenaries gain a random distance between 7 and 13 inclusive.
- You move forward a random distance between 10 and 20 inclusive.
- Your thirst is incremented by 1.
- Blurrg's tiredness is incremented by a random value between 1 and 3 inclusive.

D. Stop for the night.

- The mercenaries gain a random distance between 7 and 13 inclusive
- Blurrg is no longer tired. Set variable to zero and print("Blurrg is happy").

E. Status check.

- print the Miles Traveled.
- print the Drinks in your canteen.
- print how far the mercenaries are behind you.

Q. Quit.

- Give up.

Any other choices should be ignored.

After each choice check the thirst, tiredness, if the mercenaries have caught you and whether you have reached your ship.

If thirst becomes greater than 6, you die.

If thirst becomes greater than 4, print "You are thirsty".

If the Blurrg's tiredness is greater than 8, you die.

If the Blurrg's tiredness is greater than 5, print "Your Blurrg is getting tired".

If the mercenaries reach you, print "the mercenaries caught and killed you and baby yoda".

If you reach the ship, print "You have made it and get to live another day!")

You also have a 1 in 20 chance of stumbling upon an oasis which resets thirst to zero and fills your canteen back to 10.

## Program Shell

Create a file named mandalorian.py

## Sample Execution

Mandalorian,

You have stolen a Blurrg and must make your way across the desert planet Arvala-7.

Mercenaries and criminals are chasing you down and want baby yoda back!

Survive the desert trek and out run the mercenaries.

A. Drink from your canteen.

B. Ahead moderate speed.

C. Ahead full speed.

D. Stop for the night.

E. Status check.

Q. Quit.

Your choice(A-E or Q): C

Miles just traveled: 14.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): B

Miles just traveled: 8.

You stumbled upon an oasis

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): B

Miles just traveled: 6.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): B

Miles just traveled: 5.

The mercenaries are getting close.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): B

Miles just traveled: 9.

The mercenaries are getting close.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): E

Miles Traveled 42

Drinks in canteen 10

The mercenaries are 13 miles behind you.

The mercenaries are getting close.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): C

Miles just traveled: 15.

Your Blurrg is getting tired.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): D

Blurrg is happy.

The mercenaries are getting close.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): C

Miles just traveled: 12.

You're thirsty!

The mercenaries are getting close.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): C

Miles just traveled: 14.

You're thirsty!

The mercenaries are getting close.

- A. Drink from your canteen.
- B. Ahead moderate speed.
- C. Ahead full speed.
- D. Stop for the night.
- E. Status check.
- Q. Quit.

Your choice(A-E or Q): B

Miles just traveled: 9.

You died of thirst!