Introduction to Computer Programming

2.2 User input & nested conditionals



Input

input: accepts typed input from the user and outputs the typed input as string data.

The function argument is a string, which is the prompt displayed to the user.

In [1]:

```
name = input("Enter your name: ") # type response when prompted and press enter
print('My name is ', name)
```

Enter your name: My name is

This is a quick and easy way to add dynamic input to your program.

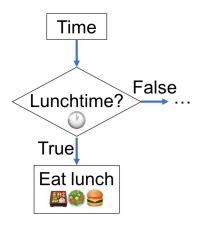
Input - a word of warning!

The input by the user is stored as a string.

Numbers entered will behave as text data unless converted to a numerical data type.

In [2]:

Example: Write a program that requests the time from the user and tells them to eat lunch if it is lunchtime.



In [11]:

enter the time (24 hour clock) in format hh.mm : 3.00

split: splits a string into a list.

In [6]:

```
A = input("Enter two numbers ")
print(A)

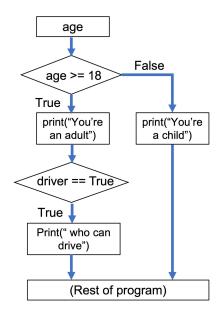
B = A.split()
print(B)
```

```
Enter two numbers 3 4
3 4
['3', '4']
```

Nested conditional statements

Conditional statements can be nested (a conditional statement within a conditional statement) to execute more complex decision making in a program.

Example: Translate the flow diagram into a programme



In [3]:

```
age = 19
graduated = False
driver = True

# Check if person is 18 years or older
if age >= 18:
    print("You're an adult", end='')

if driver:
    print(' who can drive')
else:
    print("You're a child")
```

You're an adult who can drive

Summary

- input: accepts typed input from the user. Remember that the function outputs the typed input as string data!
- Conditional statements can be nested to create more complex decision-making within a program.

In-class Demos

Example 1: Write a program that asks for the user's age and checks if they are 18 or over.

