Introduction to Computer Programming

2.2 User input & nested conditionals



input

Accepts typed input from the user.

Outputs the typed input as string data.

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

In [4]:

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

Enter your name: Ercan My name is Ercan

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.

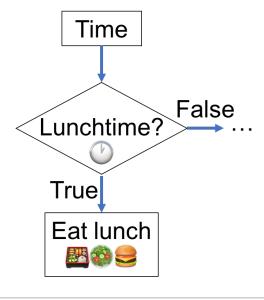
Example: + will join string data

In [7]:

```
A = input("Enter a number ")
B = input("Enter another number ")
print(A + B)
print(int(A) + int(B))
```

```
Enter a number 2
Enter another number 3
23
```

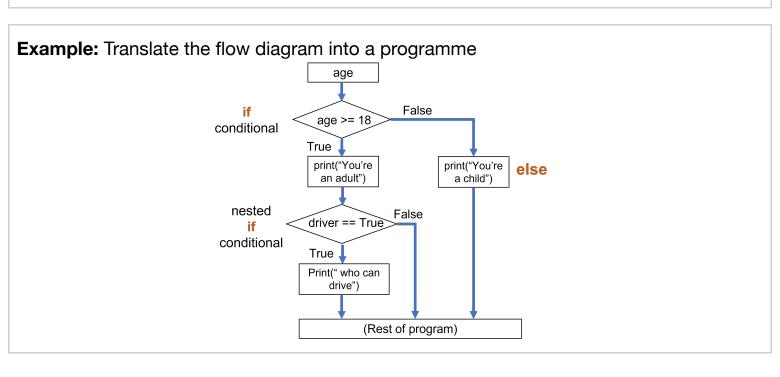
Example: Write a program that requests the time from the user and tells them to eat lunch if it is lunchtime.



enter the time (24 hour clock) in format hh.mm: 9.00

Nested conditional statements

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



```
age = 17
driver = False

# 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 a child

In [9]:

Summary

- input: accepts typed input from the user.
- input 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.

```
In [ ]:
```

Example 2: Write a program that:

- asks the user to input a number
- checks if a number is odd or even
- checks if input even numbers are multiples of 4
- checks if input odd numbers are multiples of 3

In [14]:

Input a number 4
N is even and multiple of 4