## Input

Sometimes you will need to get information from the user.

```
In [ ]:
         name = input("Who are you? ")
         print("hello " + name)
In [ ]:
         age = input("how old are you?")
         print(age)
        how old are you?48
        This may not work as expected, why?
In [ ]:
         nextyear = age + 1 #this is because input is always a string
         print(nextyear) #and we cant add a number and a string
        TypeError
                                                   Traceback (most recent call last)
        <ipython-input-9-e9aeeb6db1ca> in <module>()
        ----> 1 nextyear = age + 1
              2 print(nextyear)
        TypeError: can only concatenate str (not "int") to str
        The error shows str and int cannot be joined together.
        What will fix it?
In [ ]:
         nextyear = int(age) + 1 #using int() this will convert the string to a number
         print(nextyear)
        49
```

## An inportant solution

How can you make sure a person enters a number. Use int(), however if they do enter a letter it will crash as we cant change "hello" into a number. To solve this we use a try - except block, this will stop it from crashing.

```
In []:
    while True:
        n1 = input("Enter a number: ")
        n2 = input("Enter 2nd number: ")
        try:
            n1 = int(n1)
            n2 = int(n2)
            break
        except:
            print("you must enter a number")

        print("Thank you for entering 2 numbers")
```

Enter a number: a

Enter 2nd number: g you must enter a number

Enter a number: 3
Enter 2nd number: 5

Thank you for entering 2 numbers