

# 00-try\_and\_except

June 10, 2022

```
[1]: # What happens if I do 10.5?  
age = int(input("What is your age: "))
```

What is your age: 10.5

```
-----  
ValueError                                Traceback (most recent call last)  
Input In [1], in <cell line: 2>()  
      1 # What happens if I do 10.5?  
----> 2 age = int(input("What is your age: "))  
  
ValueError: invalid literal for int() with base 10: '10.5'
```

## 0.1 Try & Except Error Handling

```
try:  
    code block 1  
except ExceptionName:  
    code block 2
```

```
[2]: try:  
    age = int(input("What is your age: "))  
except ValueError:  
    print("Please enter your age numerically and with only whole numbers.")
```

What is your age: 10.5

Please enter your age numerically and with only whole numbers.

```
[3]: # Reprompt user  
while True:  
    try:  
        age = int(input("What is your age: "))  
        break  
    except ValueError:  
        print("Please enter your age numerically and with only whole numbers.")  
  
print(f"Your age is {age}")
```

What is your age: 10.5

Please enter your age numerically and with only whole numbers.

What is your age: Ten

Please enter your age numerically and with only whole numbers.

What is your age: 10

Your age is 10

```
[6]: # Using Raise
while True:
    try:
        age = int(input("What is your age: "))
        break
    except ValueError:
        print("Please enter your age numerically and with only whole numbers.")

if age < 18:
    raise Exception("Sorry, you need to be 18 or older.")

print(f"Your age is {age}")
```

What is your age: 99

Your age is 99

```
[8]: # Adding in Finally
while True:
    try:
        age = input("What is your age: ")
        age = int(age)
        break
    except ValueError:
        print("Please enter your age numerically and with only whole numbers.")
    finally:
        print(f"You said your age is {age}")

if age < 18:
    raise Exception("Sorry, you need to be 18 or older.")
```

What is your age: 19

You said your age is 19

```
[10]: # Using else for break
while True:
    try:
        age = input("What is your age: ")
```

```
    age = int(age)
except ValueError:
    print("Please enter your age numerically and with only whole numbers.")
else:
    break
finally:
    print(f"Your age is {age}")

if age < 18:
    raise Exception("Sorry, you need to be 18 or older.")
```

What is your age: 10.5

Please enter your age numerically and with only whole numbers.

Your age is 10.5

What is your age: 19

Your age is 19

[ ]: