

Introduction to programming with Python

Lecture - 3

Syntax error: Invalidities in the code's structure.

```
1 print("Hello, World!")
2 try:
3     ddfdfdf # inducing a syntax error
4 except:
5     print(100)
6
```

Hello, World!
100

ValueError: Value doesn't match the expected constraint

```
1 int("Hello")
```

ValueError: invalid literal for int() with base 10: 'Hello'

try - except

```
1 try:
2     int("Hello")
3 except ValueError:
4     #this except will only protect against ValueError
5     print("A ValueError occurred")
6 except:
7     #this except will protect against all Error
8     print("Something broke")
9
```

A ValueError occurred

NameError: Occurs when the code attempts to use a variable/function that has not been defined or its not accesible in current scope.

```
>>> print(a)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'a' is not defined
```

else:

```
1 try:
2     x = int(input("Enter a number x: "))
3 except ValueError:
4     print("x is not a number")
5 else:
6     # the else will only occur if except is not activated or any other
7     #error has not occurred
8     print(f"x is {x}")
```

Enter a number x: 56
x is 56

Enter a number x: cat
x is not a number

Pass

```
1 try:
2     x = int(input("Enter a number x: "))
3 except ValueError:
4     # pass does nothing but it is used with except just so
5     # user doesn't see python's error message
6     pass
```

Enter a number x: cat