

```
In [3]: ► #Functions
def greetings():
    print('Hi how are you?')
    print("welocme abroad")

print('start')
greetings()
print('Finish')
```

```
start
Hi how are you?
welocme abroad
Finish
```

```
In [4]: ► greet()
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-4-db845682bfe7> in <module>
----> 1 greet()

NameError: name 'greet' is not defined
```

```
In [5]: ► #parameter
def greetings(name):
    print(f'Hi {name}!')
    print('welcome')

print('start')
greetings("neelam")
print("Finish")
```

```
start
Hi neelam!
welcome
Finish
```

```
In [ ]: ► def greeting(firstname = "nice", lastname = "neelam"):
```

```
In [6]: ► #return statemnt
def square (x):
    return x * x
```

```
In [7]: ▶ result = square(9)
        print(result)
```

81

```
In [8]: ▶ #Excetions
        #exit code 0 means success
        #exit code 1 or any other number is an error

        #if error: value error displays
```

```
In [11]: ▶ age = int(input('Age:'))
        print(age)
```

Age:nine

```
-----
ValueError                                Traceback (most recent call last)
<ipython-input-11-a3ccad679065> in <module>
----> 1 age = int(input('Age:'))
      2 print(age)

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

```
In [13]: ▶ try:
        age = int(input('Age:'))
        print(age)
    except ValueError:
        print('Invalid value - please type in integer')
```

Age:nine

Invalid value - please type in integer

```
In [18]: ▶ try:
        age = int(input('Age:'))
        income = 20000
        risk = income/age
        print(age)
    except ZeroDivisionError:
        print("Age cannot be Zero")
    except ValueError:
        print('Invalid value - please type in integer')
```

Age:10

10

In [19]: ► risk

Out[19]: 2000.0

In [21]: ► #Class

```
class mouse:
    def move(self):
        print("move")

    def draw(self):
        print('draw')
```

```
p1 = mouse()
p1.x = 10
p1.y = 20
print(p1.x)
p1.draw()
```

```
p2 = mouse()
p2.x = 1
print(p2.x)
```

```
10
draw
1
```

In [27]: ► #Constructors

```
class mouse:
    def __init__(self,x,y):
        self.x = x
        self.y = y

    def move(self):
        print("move")

    def draw(self):
        print('draw')
```

```
p1 = mouse(10,20)
print(p1.x)
```

```
10
```

```
In [31]: ► #Generating Random Values
import random

#print(random.randint(1,9))

for i in range(2):
    print(random.random())
```

```
0.1617970638777495
0.05878922886685922
```

```
In [39]: ► #Dice roll

import random

class dice:
    def roll(self):
        first = random.randint(1,6)
        second = random.randint(1,6)
        return first, second

d = dice()
print(d.roll())
```

```
(6, 5)
```

```
In [ ]: ►
```

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In [ ]: ►
```