

Lab 1

Dylan Liesenfelt COP3035

```
In [ ]: #Introduction to Jupyter Notebooks Objective
print("Hello, Jupyter")
```

Hello, Jupyter

```
In [ ]: #Variables and Types in Python Objective:
x = 5
x
x = 'X'
x
```

Out[]: 'X'

```
In [ ]: #Introduction to Strings in Python Objective:
#This is a comment
```

Title

Subtitle

Sub-subtitle

```
In [ ]: #String Operations Objective:

myString = 'This is a string'
print(myString[0])
print(myString[0:7])
print(myString.upper())
print(myString + ', umm yeah')
print(' ~\_(ツ)_/~ ' * 5)
```

```
T
This is
THIS IS A STRING
This is a string, umm yeah
  ~\_(\ツ)_/~  ~\_(\ツ)_/~  ~\_(\ツ)_/~  ~\_(\ツ)_/~  ~\_(\ツ)_/~
```

Exercises and Examples Objective:

```
In [ ]: x = int(input('Enter First Number: '))
        y = int(input('Enter Second Number: '))
        sum = x + y
        print('The sum is: ', sum)
```

The sum is: 14

```
In [ ]: mass = 10
        speed = 20
        energy = mass * (speed * speed)
        energy
```

Out[]: 4000

```
In [ ]: myString = 'This is a really big string wow look at this string it is truly a marvelous string'
        myString[0:4] + ' ' + myString[5:7] + ' ' + myString[21:27]
```

Out[]: 'This is string'

```
In [ ]: string = 'Race Car'

        x = len(string) - 1
        while x >= 0:
            print(string[x], end='')
            x -= 1

        string[::-1]
```

raC ecaR

Out[]: 'raC ecaR'

```
In [ ]: string = '    According to all known laws of aviation, there is no way a bee should be able to fly.'
```

```
print(string.upper())
print(string.lower())
print(string.strip())

x = string.find('bee')
print(x)

print(string.replace('bee', 'pig'))

y = string.split()
print(y)
print(y[12])
```

ACCORDING TO ALL KNOWN LAWS OF AVIATION, THERE IS NO WAY A BEE SHOULD BE ABLE TO FLY.

according to all known laws of aviation, there is no way a bee should be able to fly.

According to all known laws of aviation, there is no way a bee should be able to fly.

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According to all known laws of aviation, there is no way a pig should be able to fly.

['According', 'to', 'all', 'known', 'laws', 'of', 'aviation,', 'there', 'is', 'no', 'way', 'a', 'bee', 'should', 'be',
, 'able', 'to', 'fly.']

bee