# Lab-1 : Python Basics


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# Numbers

What is 8 to the power of 3?

In [1]:
```
#Write your code here
8**3
```

Out[1]: 512

What is the lenght of this sentence?

In [4]:
```
z = ' Hi, my name is Bob! '
```

In [5]:
```
#Write your code here
len(z)
```

Out[5]: 21

For any value of x, create a variable called even_check that is True if x is even and False if x is odd.

In [10]:
```
#Write your code here
x = 5
even_check =  x % 2 == 0

even_check
```

Out[10]: False

You have num_shirts t-shirts, num_shorts pairs of shorts and num_shoes pairs of shoes. Create a variable called num_outfits that stores the total number of different outfits you can make.

In [11]:
```
#Write your code here
num_shirts = 10
num_weekday_warriors = 8
num_shoes = 4

num_outfits = num_shirts + num_weekday_warriors + num_shoes
num_outfits
```

Out[11]: 22

# String Practice

Create variable called "name" that stores your full name and print it.

In [12]:
```
#Write your code here

name = "Meet Trivedi"
name
```

Out[12]: 'Meet Trivedi'

Correct the following variable so it is equal to "spamm"

In [17]:
```
#Write your code here
name = "spaxx"
str1 = name[:3]
str2 = "mm"
name = str1 + str2
name
```

Out[17]: 'spamm'

Figure out a way to slice and combine the strings s1, s2, and s3 so that the variable consec_ints = "123456789".

In [18]:
```
s1 = "12345"
s2 = "34567"
s3 = "789"

#Write your code here

str = s1 + s2[3] + s3
str
```

Out[18]: '123456789'

# List Practice

Slice and combine the elements of the list L in a way to print out "Red".

In [19]:
```
L = [1,"R", 2, 3, "e", "d", 34,1]


#Write your code here
l1 = L[1] + L[4] + L[5]
l1
```

Out[19]: 'Red'

# For Loops

Count the number of n's in the name below (lower and uppercase count)

In [29]:
```
#Write your code here

name = "Dennis Zhang"
```

```
count = 0
for i in name:
    if (i == "n" or i == "N") :
        count = count+1
count
```

Out[29]: 3

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