ASSIGNMENT 8

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Q1 Handle the exception thrown by the code below by using try and except blocks.

for i in ['a','b','c']:

print(i**2)

In [19]:
```
try:
    for i in ['a','b','c']:

        print(i**2)

except:
    print("Please recheck your code")
```

```
Please recheck your code
```

Q1 2. Write a function that asks for an integer and prints the square of it. Use a while loop with a try, except, else block to account for incorrect inputs.

In [21]:
```
def print_square():
    while True:
        try:
            x = int(input("Enter an integer: "))
        except ValueError:
            print("Invalid input. Please enter an integer.")
        else:
            print(f"The square of {x} is {x**2}.")
            break

print_square()
```

```
Enter an integer: dsf
Invalid input. Please enter an integer.
Enter an integer: 12
The square of 12 is 144.
```

3. Create a 3x3 matrix with values ranging from 0 to 8

In [10]:
```
import numpy as np
arry = np.arange(0,9)
arry
new = arry.reshape((3,3))
new
```

Out[10]:
```
array([[0, 1, 2],
       [3, 4, 5],
       [6, 7, 8]])
```

4 Use NumPy to generate an array of 25 random numbers sampled from a standard normal distribution

In [14]:
```
import numpy as np
a1 = np.random.normal(size=25)
a1
```

Out[14]:
```
array([-0.90671854, -0.72680508, -1.34767737, -0.35192585, -1.40860219,
        0.88482489,  0.12602068, -0.54723884,  1.37829645,  0.05495883,
       -0.52569023,  0.6925304 , -0.64600502,  0.67631055,  1.08500524,
        0.79857271,  0.28332263,  0.13747144,  0.60766608, -0.39968073,
        0.73366398, -1.26596284,  0.45339399, -0.81361101, -1.14300962])
```

In [ ]: