

Python Tutorial

```
import numpy as np
import matplotlib.pyplot as plt
from astropy.io import fits
```

#Basic Operations

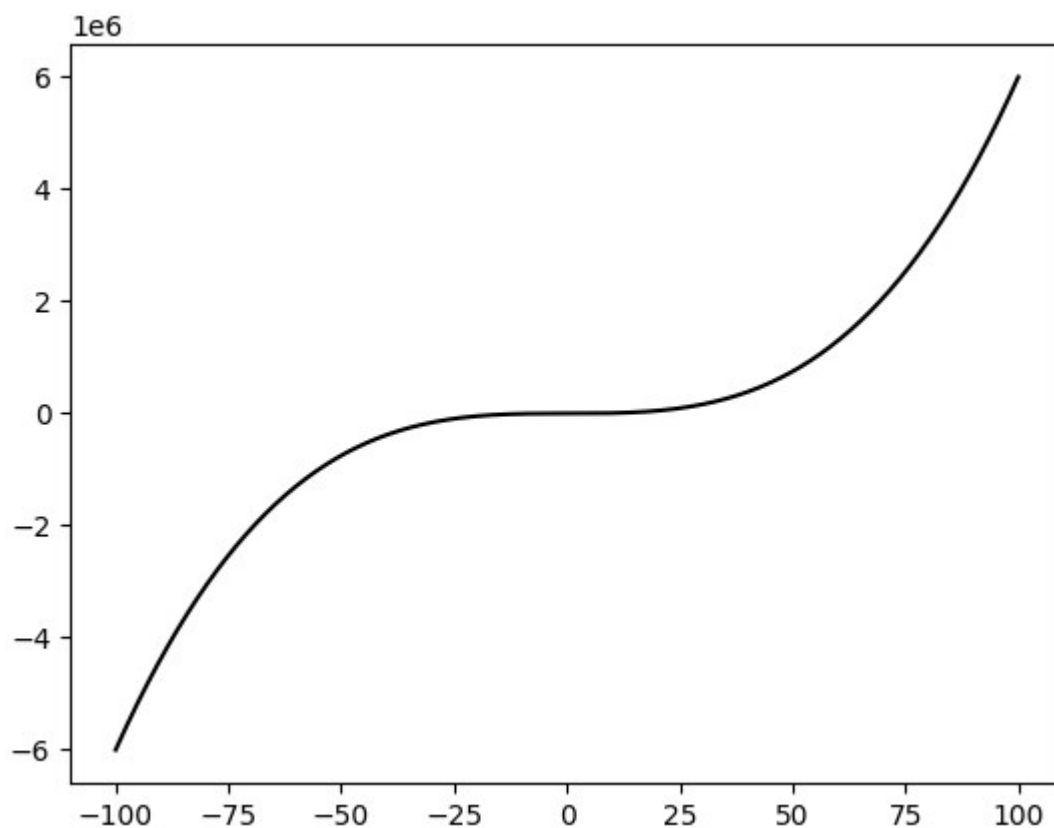
```
print('Hello World')
a,b = 22,98
print('Product of a and b is ',a*b)
```



```
Hello World
Product of a and b is  2156
```

#Plotting

```
a = np.linspace(-100,100,1000) #An array
b = 6*a**3 + 5
plt.plot(a,b,'-k') #-k is equivalent of "linestyle='-', color='black' "
plt.show() #Fun fact, k comes from "key" or printer's black
```



#Fibonacci Numbers

```
a, b = 0, 1

print("Fibonacci Sequence:")
for i in range(20):
    print(a, end=' ')
    a, b = b, a+b
```

```
print(a, end= ' ')
a, b = b, a + b
```



Fibonacci Sequence:

0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181