

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

```
dfx = pd.read_csv("https://raw.githubusercontent.com/coding-blocks-archives/machir")
dfy = pd.read_csv("https://raw.githubusercontent.com/coding-blocks-archives/machine")
print(dfx.shape)
print(dfy.shape)
```

```
↳ (399, 3)
   (399, 2)
```

```
dfx.head(n=4)
```

```
↳
```

	0	3.4821055700010444	2.4203917879404533
0	1	3.516279	3.719750
1	2	4.606496	3.414379
2	3	4.677011	3.047244
3	4	4.157725	3.138677

```
X = dfx.values
Y = dfy.values
print(type(X))
print(type(Y))
```

```
↳ <class 'numpy.ndarray'>
   <class 'numpy.ndarray'>
```

```
print(X)
```

```
↳ [[ 1.00000000e+00  3.51627900e+00  3.71975047e+00]
    [ 2.00000000e+00  4.60649561e+00  3.41437943e+00]
    [ 3.00000000e+00  4.67701056e+00  3.04724443e+00]
    ...
    [ 3.97000000e+02  7.89625683e-01  9.31669806e-01]
    [ 3.98000000e+02 -1.00253042e+00 -6.76162472e-01]
    [ 3.99000000e+02  2.92386778e-01  5.61177823e-01]]
```

```
X = X[:,1:]
Y = Y[:,1:].reshape((-1,))
print(X.shape)
print(Y.shape)
```

```
↳ (399, 2)
   (399,)
```

```
print(Y)
```

```
↳
```

2/4

```
vals = vals[:k]
#print(vals)
vals = np.array(vals)
#print(vals)
new_vals = np.unique(vals[:,1],return_counts=True)
#print(new_vals)
#print(new_vals[0])
#print(new_vals[1])
index = new_vals[1].argmax()
return new_vals[0][index]
```

```
pred = knn(X,Y,query_pt)
print(pred)
```

```
☐ 0.0
```

```
#print(X,Y)
```

