df = pd.read_csv("Iris.csv")

df.head()

	sepal_length	sepal_width	petal_length	petal_width	species	1
0	5.1	3.5	1.4	0.2	Iris-setosa	
1	4.9	3.0	1.4	0.2	Iris-setosa	
2	4.7	3.2	1.3	0.2	Iris-setosa	
3	4.6	3.1	1.5	0.2	Iris-setosa	
4	5.0	3.6	1.4	0.2	Iris-setosa	

df.describe()

₽		sepal_length	sepal_width	petal_length	petal_width
	count	150.000000	150.000000	150.000000	150.000000
	mean	5.843333	3.054000	3.758667	1.198667
	std	0.828066	0.433594	1.764420	0.763161
	min	4.300000	2.000000	1.000000	0.100000
	25%	5.100000	2.800000	1.600000	0.300000
	50%	5.800000	3.000000	4.350000	1.300000
	75%	6.400000	3.300000	5.100000	1.800000
	max	7.900000	4.400000	6.900000	2.500000

df.shape

(150, 5)

df.isnull().sum()

sepal_length 0
sepal_width 0
petal_length 0
petal_width 0
species 0
dtype: int64

df1 = df.fillna(value=0)
df1.head()

	sepal_length	sepal_width	petal_length	petal_width	species	1
0	5.1	3.5	1.4	0.2	Iris-setosa	
1	4.9	3.0	1.4	0.2	Iris-setosa	
2	4.7	3.2	1.3	0.2	Iris-setosa	
3	4.6	3.1	1.5	0.2	Iris-setosa	
4	5.0	3.6	1.4	0.2	Iris-setosa	

df2=df.fillna(value=df["sepal_length"].mean())
df2.head()

df3=df.fillna(value=df["sepal_length"].min()) df3.head()

	sepal_length	sepal_width	petal_length	petal_width	species	1
0	5.1	3.5	1.4	0.2	Iris-setosa	
1	4.9	3.0	1.4	0.2	Iris-setosa	
2	4.7	3.2	1.3	0.2	Iris-setosa	
3	4.6	3.1	1.5	0.2	Iris-setosa	
4	5.0	3.6	1.4	0.2	Iris-setosa	

df3=df.fillna(value=df["sepal_width"].max())
df3.head()

	sepal_length	sepal_width	petal_length	petal_width	species	1
0	5.1	3.5	1.4	0.2	Iris-setosa	
1	4.9	3.0	1.4	0.2	Iris-setosa	
2	4.7	3.2	1.3	0.2	Iris-setosa	
3	4.6	3.1	1.5	0.2	Iris-setosa	
4	5.0	3.6	1.4	0.2	Iris-setosa	

df4=df.dropna()
df4.head()

	sepal_length	sepal_width	petal_length	petal_width	species	1
0	5.1	3.5	1.4	0.2	Iris-setosa	
1	4.9	3.0	1.4	0.2	Iris-setosa	
2	4.7	3.2	1.3	0.2	Iris-setosa	
3	4.6	3.1	1.5	0.2	Iris-setosa	
4	5.0	3.6	1.4	0.2	Iris-setosa	

df["petal_length"]=df["petal_length"].round(0).astype(int)
df["petal_length"].dtypes
df.head()

	sepal_length	sepal_width	petal_length	petal_width	species	1
0	5.1	3.5	1	0.2	Iris-setosa	
1	4.9	3.0	1	0.2	Iris-setosa	
2	4.7	3.2	1	0.2	Iris-setosa	
3	4.6	3.1	2	0.2	Iris-setosa	
4	5.0	3.6	1	0.2	Iris-setosa	

df["Code"]=pd.factorize(df.species)[0]
df.species.value_counts()

Iris-setosa 50
Iris-versicolor 50
Iris-virginica 50
Name: species, dtype: int64