In [ ]:
```
import tensorflow
from keras.models import Sequential
from keras.layers import InputLayer,Dense
from keras.optimizers import Adam
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error
import numpy as np
```

In [ ]:
```
data=pd.read_csv("D:\\Workshops\\W 17 - AI Masterclass Workshop\\data\\Housing Price.CSV")
data.head()
```

In [ ]:
```
x=data.iloc[:,:5].values
y=data.iloc[:,5].values
```

In [ ]:
```
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=0)
```

Model structure

In [ ]:
```
model=Sequential()
model.add(InputLayer(input_shape=(5,)))
model.add(Dense(units=3, activation="relu"))
model.add(Dense(units=2, activation="relu"))
model.add(Dense(units=1, activation="linear"))
```

In [ ]:
```
model.summary()
```

Optimizers

In [ ]:
```
optim = Adam(lr=0.01)
```

Compiling the model

In [ ]:
```
model.compile(loss="mean_squared_error",optimizer=optim)
```

Training the model

In [ ]:
```
model_det=model.fit(x_train,y_train,validation_data=(x_test,y_test),epochs=50)
```

Evaluating the model

In [ ]:
```
y_pred=model.predict(x_test)
```

In [ ]:
```
np.sqrt(mean_squared_error(y_test,y_pred))
```