```
import numpy as np سوال
```

```
b2 -= learning_rate * grads['db2']
W3 -= learning_rate * grads['dW3']
```

```
import keras
from keras import backend as K
from keras.models import Sequential
from keras.layers.core import Dense
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from keras.layers.core import Adam
from keras.metrics import categorical crossentropy
import pandas as pd

store_data = pd.read_csv('Drinks.csv', sep=',')
print(store_data)
scaled train_samples = []
train labels = []
train labels = []
train labels = []
train labels = append([str(store data.values[0,j]) for j in range(1, 13)])

for i in range(0, 177):
    scaled_train_samples.append(str(store_data.values[i,j]) for j in range(1, 13))
    train_labels.append(str(store_data.values[i,j]) for j in range(1, 13))

layers = [
    Dense(8, input_shape=(13,), activation='tanh'),
    Dense(9, activation='tanh'),
    Dense(3, activation='tanh'),
    Dense(3, activation='softmax')

model = Sequential(layers)

a = model.compile(
    Adam(ir=.7),
    loss='sparse_categorical_crossentropy',
    metrics=['accuracy']

)

model.fit(
    scaled_train_samples,
    train_labels,
    batch_size=10,
    epochs=20,
    shift[se-True,
    verbose=3)
}
```