```
print("actual values=", actual)
prediction prob=[0.886,0.375,0.174,0.817,0.574,0.319,0.812,0.314,0.098,0.741,0.847,0.202,0.31,0.073,0.179,0.917,0.64,0.388,0.116,0.72]
# (i) Write a function from scratch called predict() that computes the final predictions to be output by the model and returns them as a list
def predict(prediction prob, threshold):
   predicted=list()
   for probability in prediction prob:
       if probability<=threshold: predicted.append(0)</pre>
       else: predicted.append(1)
   print("predicted values=",predicted)
   return predicted
# (ii) Write a function from scratch called acc score() that calculates the model accuracy score using the true labels as compared to the prediction
def acc score(actual, predicted):
   correct=0
   for i in range(len(actual)):
       if actual[i]==predicted[i]: correct+=1
   return correct/len(actual)
predicted=predict(prediction prob, 0.5)
accuracy0=acc score(actual, predicted)
# (iii) Get the accuracy from sklearn then compare accuracy with output from the function acc score()
from sklearn.metrics import accuracy score
accuracy1=accuracy score(actual, predicted)
print('Accuracy calculated by acc score= ', accuracy0)
print('Accuracy calculated by sklearn library function accuracy scoree= ', accuracy1)
r→ actual values= [1, 0, 0, 1, 0, 0, 1, 0, 0, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1]
    predicted values= [1, 0, 0, 1, 1, 0, 1, 0, 0, 1, 1, 0, 0, 0, 0, 1, 1, 0, 0, 1]
    Accuracy calculated by acc score= 0.85
    Accuracy calculated by sklearn library function accuracy_scoree= 0.85
                                                                          + Text
                                                               + Code
```

LOGISTIC REGRESSION

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