```
In [79]: s1=input("Enter string : ")
          j=len(s1)
          s=" "
          for i in range (0,j):
              if(ord(s1[i])>=ord('a') and ord(s1[i])<=ord('z')) :</pre>
                   x = chr(ord(s1[i]) + ord("A") - ord('a'))
              elif(ord(s1[i])>=ord('A') and ord(s1[i])<=ord('Z')) :</pre>
                  x = chr(ord(s1[i]) + ord('a') - ord('A'))
              S=S+X
          print(s)
```

Enter string : Teja tEJA

PART-3 HAAR-CASCADE

IRIS CLASSIFIER PROJECT

sub part 1&2

```
In [62]: #downloading csv file
         import numpy as np
         import matplotlib.pyplot as plt
         import pandas as pd
         %matplotlib inline
         columns = ['Sepal length', 'Sepal width', 'Petal length', 'Petal width', 'targ
         #Loading the data from local system
         df = pd.read csv(r'C:\Users\tejas\OneDrive\Desktop\iris.data.csv')
         df.head()
```

Out[62]:		sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)	target
	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

3.6

1.4

subpart 3

5.0

0.2 Iris-setosa

```
In [73]: # Evaluating the performance
# Split the data to train and test dataset.
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, Y, test_size=0.6)

#found 0.6 split ratio to be better
from sklearn.svm import SVC
svn = SVC()
svn.fit(X_train, y_train)
# Predict from the test dataset
predictions = svn.predict(X_test)
# Calculate the accuracy
from sklearn.metrics import accuracy_score
accuracy_score(y_test, predictions)
```

Out[73]: 0.97777777777777

sub part 4

```
In [74]: #decision tree
    mod_dt = DecisionTreeClassifier(max_depth = 3, random_state = 1)
    mod_dt.fit(X_train,y_train)
    prediction=mod_dt.predict(X_test)
    print("The accuracy of the Decision Tree i","{:.3f}".format(accuracy_score(y_t))
```

The accuracy of the Decision Tree i 0.978

Part 3 Haar cascade

Part 4