Prepared By: Divneet Singh Kapoor & Kiran Jot Singh



## **HOME TASK**

#### **EXPERIMENT – 3**

STUDENT'S NAME: YANA SRIVASTAVA

STUDENT'S UID: 20BCS2279

**SECTION: 23B** 

**SEMESTER: 1st** 

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#### Aim:

At a newly opened super-market, the Manager wants to have a quick survey of the customer satisfaction without interacting with all the customers. Develop an algorithm/code/system that takes the images of various customers entering/exiting the super-market as input, and find out the number of males/females who are happy and sad.

### **Requirements:**

PC with internet connectivity, Python 3.7

The images can be downloaded from \_\_\_\_\_\_

#### CODE:

```
from PIL import Image import

cv2

import matplotlib.pyplot as plt

import glob import os total=0

m=0

f=0 happy=0

sad=0

img_dir = r"D:\CU\AI lab\Images" # Enter Directory of all images

data_path = os.path.join(img_dir,'*.jpg') files =

glob.glob(data_path)

data = [] for

f1 in files:
```



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```
img = cv2.imread(f1) plt.imshow(img[:, :, ::-1])
image = Image.open(f1) \quad image.show()
data.append(img) demography =
DeepFace.analyze(img) print("Gender: ",
demography["gender"]) print("Emotion: ",
demography["dominant_emotion"])    total=total+1
                                                   if
demography["dominant_emotion"]=="happy":
    happy=happy+1
else:
    sad=sad+1
                  if
demography["gender"]=="Man":
    m=m+1
else:
f=f+1
print("Number of customers visited: ",total)
print("Number of male customers: ",m) print("Number
of female customers: ",f) print("Number of happy
customers: ",i) print("Number of sad customers: ",j)
```

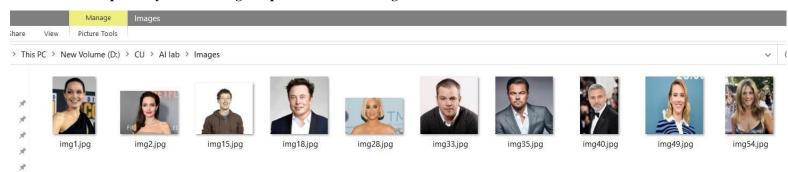
#### **OUTCOME:**

For customers:

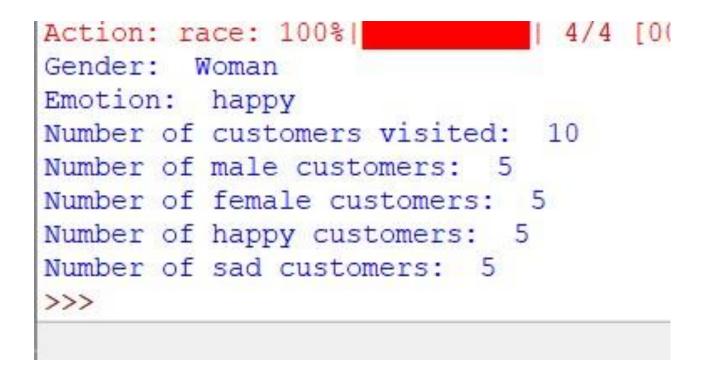
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# Output:



#### **Expected Outcome:**

The output of the code should calculate the following	
Number of customers visited:	10
Number of male customers:	5

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