**Practical No: 20**

**Aim:** File Input/output: Write a program to : To open a file in read mode and write its contents to another file but replace every occurrence of character ‘h’ by ‘a’. To open a file in read mode and print the number of occurrences of a character ‘a’.

**Course Outcome:** Develop ‘Python’ programs using File Input/output operations.

**Requirements: Computer, Python 3.3.34, Vs Code.**

**Theory:**

replace() is an inbuilt function in the Python programming language that returns a copy of the string where all occurrences of a substring are replaced with another substring.

Using the in-built count() method.

Approach:

Read the file.

Store the content of the file in a variable.

Use the count() method with the argument as a letter whose frequency is required.

Display the count of the letter.

**Flowchart:**

**Program1:**

#To open a file in read mode and write its contents to another file but replace every occurrence of character ‘h’ by ‘a’.

x = open("first.txt",'r')

s=x.read()

re = s.replace('h','a')

x.close()

x=open("second.txt","w")

x.writelines(re)

x.close()

**Program2:**

#To open a file in read mode and print the number of occurrences of a character ‘a’.

file1 = open('second.txt','r')

text = file1.read()

print("The Character occured",text.count('a')," Times")

**Output1:**

**first.txt:**

My self-Dhiraj Jagtap Currently pursuing the Diploma in computer Engg. from Government Polytechnic Amravati.

Hyderabad

harish

Mahan

Mahesh

Haryana

**Second.txt:**

My self Dairaj Jagtap Currently pursuing tae Diploma in computer Engg. from Government Polytecanic Amravati.

ayderabad

aarisa

maaen

maaesa

aaryana

**Output2:**

The Character occurred 24 Times

**Conclusion:** In these practical first we have created two txt files named first and second than read the text of the first file to the ‘s’ variable. By using the replace keyword replaced all h character by a present in the ‘s’ variable and stored it in the ‘re’ variable then opened the second file and using the write function inserted the content in the ‘re’ variable. Here we have copied the content of the first file to second and also replaced the character h in the second file. By using the count keyword counted the occurrence of the ‘a’ character in the second file. Hence, we have copied, replaced and counted the characters presented in the file.