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| **Ex.No:10** | **Find the most frequent words in a text read from a file** |
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***Aim:***

To develop a python program to Find the most frequent words in a text read from a file.

***Algorithm:***

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| **Step 1:** | Start Process |
| **Step 2:** | Open input file |
| **Step 3:** | Read all the data into single string called data |
| **Step 4:** | Split data based on space “ ” and make a word list. |
| **Step 5:** | Take every word and compare with all the words |
| **Step 6:** | If matched increase the count of particular values by 1 |
| **Step 7:** | Else ignore the word. |
| **Step 8:** | If all the words compared the find the maximum count value then display the associated words |
| **Step 9** | Stop Process |

**Flow Chart:**

**Pseudo Code Prime Finder:**

START

READ file\_contents in data

SET word\_list = CALL split\_words(data,” ”)

WHILE no words to compare in word\_list THEN

Current\_Word = CALL get\_word()

CALL move\_to\_next\_word()

WHILE no\_words to compare from Current Word THEN

Next\_Word = CALL get\_word()

IF Current\_Word =Next\_Word THEN

Current\_Word\_Count += 1

ELSE

Current\_Word\_Count = 1

END IF

CALL move\_to\_next\_word()

END WHILE

CALL move\_to\_next\_word()

END WHILE

SET Max\_value = CALL max\_finder with Word Count

WHILE no words to compare in word\_list THEN

Current\_Word = CALL get\_word()

Current\_Word\_Count = CALL get\_word\_count(Current\_Word)

IF Max\_value equls to Current\_Word\_Count THEN

PRINT Current\_Word

END IF

END WHILE

STOP

**Program:**

in\_file = open("input\_file.txt","r")

data = in\_file.read()

print(data)

word\_list = data.split(" ")

word\_dictionary = {}

for word in word\_list:

if(word in word\_dictionary):

word\_dictionary[word] += 1

else:

word\_dictionary[word] = 1

max\_frequency = max(word\_dictionary.values())

print(max\_frequency)

print("Maximum Repeated Words")

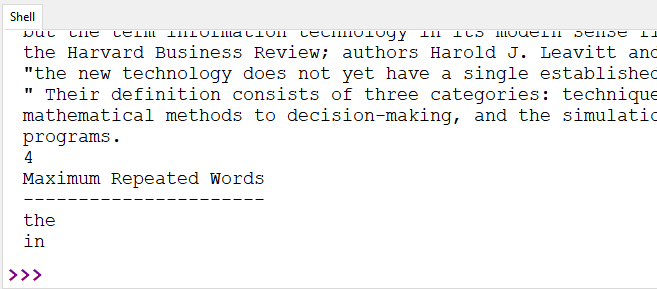
print("----------------------")

for word in word\_dictionary:

if(word\_dictionary[word]==max\_frequency):

print (word)

**Output:**

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***Result:***

Thus the python program Find the most frequent words in a text read from a file was developed and tested successfully.