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Python Programming - 2101CS405

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Lab - 8

File handling

A

01) WAP to read entire file named abc.txt

In [ ]:
```
file = open('abc.txt','r')
print(file.read())
file.close()
```

```
hello world
from mehul
how
are
you
whats
about
you
```

02) WAP to print program it self on console.

In [ ]:
```
with open('abc2.txt','r') as file :
    data = file.read()
    print(data)
```

```
with open('Python Programming - Lab - 8.ipynb','r') as file :
    data = file.read()
    print(data)
```

03) WAP to read first 5 lines from the file named abc.txt

In [ ]:
```
with open('abc.txt','r') as file :
    lines = file.readlines()
    firstFive=lines[0:5:]
    print(''.join(firstFive))
```

```
hello world
from mehul
how
are
you
```

04) WAP to find the longest word in a file named abc.txt

In [ ]:
```
def longest_word(filename):
    try:
        with open(filename, 'r') as file:
            words = file.read().split()
            longest = max(words, key=len)
            return longest
    except FileNotFoundError:
        print("File not found!")

filename = 'abc.txt'
longest = longest_word(filename)
if longest:
    print("Longest word in the file is:", longest)
```

```
Longest word in the file is: thisislongest
```

05) WAP to find the size of the file named abc.txt

In [ ]:
```
import os

size = os.path.getsize('abc2.txt')
print("size of file is ",size)
```

```
size of file is  102
```

06) WAP to implement search function to search specific occurance of word in a given text file.

In [ ]:
```
searchWord = input("Enter word to search in file")

with open('abc.txt','r') as file :
    data = file.read()
    if searchWord in data :
        print("Word found at :: ",data.find(searchWord))
    else :
        print("Word not found!!")
```

```
Word found at ::  50
```

B

01) WAP to write first 100 prime numbers to a file named primenumbers.txt

(Note: each number should be in new line)

In [ ]:
```
with open('primenumbers.txt','w') as file :
    for i in range(1,101) :
        for j in range(2,i//2) :
            if i % j == 0 :
                break
        file.write(str(i)+"\n")
```

02) WAP to merge two files and write it in a new file.

In [ ]:
```
with open('abc2.txt','w') as file :
    file.writelines("Hello from abc2.txt\nHow are you from abc2.txt\nhows g

with open('abc.txt','a') as file1 :
    with open('abc2.txt','r') as file2 :
        data = file2.read()
        file1.write("\n\n"+data)
```

03) WAP to encrypt a text file.

In [ ]:
```
file = open('abc2.txt','r+')
data = file.read().encode("utf-8")
print(data)
```

```
b"with open('Python Programming - Lab - 8.ipynb','r') as file :\n    data
= file.read()\n    print(data)"
```

04) WAP to decrypt a previously encrypted file.

In [ ]:
```
import base64
def decode_file(input_file, output_file):
    try:
        with open(input_file, 'rb') as f:
            encoded_data = f.read()
            decoded_data = base64.b64decode(encoded_data)

        with open(output_file, 'wb') as f:
            f.write(decoded_data)
        print("File decoded successfully!")
    except FileNotFoundError:
        print("File not found!")

input_file = 'encoded_file.txt'
output_file = 'decoded_file.txt'
decode_file(input_file, output_file)
```

05) WAP to remove a word from text file.

In [ ]:
```
word = input("Enter word to remove : ")

with open('abc2.txt','r') as file :
    data = file.read()
    if word in data :
        temp = data.replace(word,"")
        with open('abc2.txt','w') as file2 :
            file2.write(temp)
        print("Word removed successfully!!")
    else :
        print("word not found!!")
```

```
Word removed successfully!!
```