

21P – 8004 Ammar raza

QUESTION 1:

The file names.txt contains a list of names, one per line.

a. Write a program that start printing the first 4 character of every name in a file (names.txt).

```
file =open("names.txt","r")  
  
for line in file:  
  
    line = line.strip("\n")  
  
    line=line[0:4] #slicing line by line  
  
    print(line)
```

```
print(line)
```

```
Atif
Umer
Anna
Aime
Faro
Hamz
Ali
Ahme
Ibra
Saad
Raza
Mich
```

b. Write a program that prints the sum of the lengths of the names in names.txt.

```
file = open("names.txt","r")
sum = 0
for i in file:
    i = i.strip("\n")
    sum+=len(i) #sum of letters
print('total sum of names',sum)
```

```
print('total sum of names')
```

```
total sum of names 56
```

c. Write a program that prints the average of the lengths of the names in names.txt.

```
file = open("names.txt", "r")  
  
sum=0  
  
counter = 0  
  
for i in file:  
  
    i=i.strip("\n")  
  
    sum+=len(i)  
  
    counter+=1  
  
  
average=sum/counter  
print(average)
```

```
average=sum/counter  
print(average)
```

4.666666666666667

d. Write a program that reads in the names form names.txt and prints the shortest name along with its length.

```
file =open("names.txt","r")  
shortline=file.readline()  
fline=len(shortline)  
  
for i in file:  
  
    if len(i)<fline:  
        shortline=i  
print(shortline)
```

```
print(st
```

Ali

e. Write a python **function** that reads in the names in names.txt and prints all the names that have the length given as a parameter e.g print_name(5)

```
file = open("names.txt", "r")  
  
x=5  
  
for i in file:  
  
    i = i.strip('\n')  
    #x_number_of_chrcters_are_printed  
  
    if len(i)== x:  
  
        print(i)
```

Aimen

Hamza

Ahmed

Ibrar

f. Write a program that reads in the names in names.txt and writes out a file at name_subj.txt containing the names along with subject's name, one per line, in the corresponding order.

```
names = open("names.txt",'r')
file=open("name_subj.txt",'a')
sub = "Programing lb,prgming
clss,eng,clcls"
for name in names:
    name = name.strip("\n")
    file.write(name)
    file.write(" ")
    file.write(sub)
    file.write("\n")
file.close()
names.close()
file=open("name_subj.txt",'r')
print(file.read())
```

```
Atif Atif Programing lb,prgming clss,eng,clcls
Umer Programing lb,prgming clss,eng,clcls
Anna Programing lb,prgming clss,eng,clcls
Aimen Programing lb,prgming clss,eng,clcls
Farooq Programing lb,prgming clss,eng,clcls
Hamza Programing lb,prgming clss,eng,clcls
Ali Programing lb,prgming clss,eng,clcls
Ahmed Programing lb,prgming clss,eng,clcls
Ibrar Programing lb,prgming clss,eng,clcls
Saad Programing lb,prgming clss,eng,clcls
Raza Programing lb,prgming clss,eng,clcls
Michael Programing lb,prgming clss,eng,clcls
```

g. Write a python **function** that reads in the names in names.txt. Your function should ask user to enter a name to search if the input is in file your function should return true otherwise it should return false.

```
ile = open("names.txt", "r")

print(file.read())

search_word = input("enter a word
you want to search in file: ")

if(search_word in file):

    #it-checks-the-searched-word-is-
    in-file-aur-not

    print(True)

else:

    print(False)
```

```
enter a word you want to search in file: usama
False
```