Python Practical 4
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1. Create a function “cricket_data” to Accept Five Cricketer"s full names from the user and write in a file “cricket.txt”. (Each name in the separate line) without using write () function.

In [17]:

```
def cricket_data():
    name = input("Enter cricketer's name:")
    return name
f0 = open("cricket.txt", "w")
for i in range (0,5):
    f1   =   open("cricket.txt",    "a")
    f1.writelines(cricket_data())
    f1.writelines("\n")
f1.close()
f2 = open("cricket.txt", "r")
print(f2.read())
```

```
Enter cricketer's name:Sachin Enter
cricketer's name:Kohli Enter
cricketer's name:Dhoni Enter
cricketer's name:ABD Enter
cricketer's name:Bumrah Sachin
Kohli
Dhoni
ABD
Bumrah
```

2. We"re working with a list of flowers and some information about each one.The create_file function writes this information to „flowers.txt". The “contents_of_file” function takes the flower name as argument and returns the information of a flower in a nicely formatted block.

In [6]:

```
def contents_of_file(name):
    if name == "rose": info =
        "it is red"
    elif name == "lotus": info =
        "it is white"
    elif name == "sunflower": info
        = "it is yellow"
    else:
        info = "Data not available"
    return info

def create_file():
    f1 = open("E:¥Yashi Study¥Python Material\flowers.txt", "w")
    f1.writelines(contents_of_file("sunflower")) f1.writelines("\n")
    f1.close()

create_file()
f2 = open("E:¥Yashi Study¥Python Material\flowers.txt", "r") print(f2.read())
f2.close()
```

```
it is yellow
```

3. Create a function “wt_tr_data” to store information (train_no, train_name,train_type, source, and destination) of a trains running in the western region into a file “west_train_details.txt”.

In [7]:

```
def wt_tr_data(train_no, train_name, train_type, source, destination): t1=open("E:¥Yashi
    Study¥Python Material¥west_train_details.txt", "a") t1.write(train_no)
    t1.write(" || ")
    t1.write(train_name)
    t1.write(" || ")
    t1.write(train_type)
    t1.write(" || ")
    t1.write(source)
    t1.write(" || ")
    t1.write(destination)
    t1.write("\n") t1.close()

wt_tr_data("21921","HZT.Nizamuddin","Passenger","Nagpur", "Delhi") wt_tr_data("36678","Rajdhani
Express","Express", "Mumbai","Bangalore") wt_tr_data("98765","Doronto
Express","Superfast","Chennai", "Hyderabad") t2=open("E:¥Yashi Study¥Python
Material¥west_train_details.txt", "r") print(t2.read())
t2.close()
```

```
21921 || HZT.Nizamuddin || Passenger || Nagpur || Delhi 36678 || Rajdhani
Express || Express || Mumbai || Bangalore 98765 || Doronto Express ||
Superfast || Chennai || Hyderabad
```

4. Using the file "west_train_details.txt", create a function "train details" to take train no. as an argument and returns the train details in a proper format.

In [11]:

```
def train_details():
    file = open("E:¥Yashi Study¥Python Material¥west_train_details.txt") content=
    file.readlines()
    print("given options\n ")
    print("21921\n")
    print("36678\n")
    print("98765\n")
    n=int(input("Enter the train number: \n"))

    if n==21921:
        print(content[0])

    elif n==36678:
        print(content[1])
    elif n==98765:
        print(content[2])
```

```
given options

21921

36678

98765

Enter the train number:
36678
36678 || Rajdhani Express || Express || Mumbai || Bangalore
```

5. From the "u19.txt", write a code to answer the following questions:

a. Read a file and Create a dictionary contains information of no. of lines and no. of words in the file.

In [14]:

```
s1=open("u19.txt","r") lines=0
words=0
Content = s1.read()
CoList = Content.split("\n")
w=Content.split(" ")

#loop for counting lines
for i in CoList:
    lines+=1

#loop for counting words
for j in w:
    words+=1

d={"Total number of lines":lines, "Total number of words":words} print(d)
```

```
{'Total number of lines': 14, 'Total number of words': 169}
```

b. Find all the days of a week present in the file and create a list of it.

In [18]:

```
def word_count(g):
    file=open("u19.txt")
    freq=file.read()
    a1 = freq.count("Sunday") a2 =
    freq.count("Monday") a3 =
    freq.count("Tuesday") a4 =
    freq.count("Wednesday") a5 =
    freq.count("Thursday") a6 =
    freq.count("Friday") a7 =
    freq.count("Saturday")

    r={"Sunday":a1,"Monday":a2,"Tuesday":a3,"Wednesday":a4,"Thursday":a5,"Friday":a6,"Saturday":a7} print(r)

    for k1,value in r.items():
        if value>0:
            print([k1])

with open("u19.txt","r") as g: word_count(g)
```

```
{'Sunday': 0, 'Monday': 0, 'Tuesday': 0, 'Wednesday': 0, 'Thursday': 2, 'Friday': 0, 'Saturday': 1} ['Thursday']
['Saturday']
```

c. Read a file and create a dictionary contains country name and their occurences in the file

In [16]:

```
def word_count(f):
    file=open("u19.txt")
    data=file.read()
    a1 = data.count("UAE") a2 =
    data.count("India")
    a3 = data.count("Pakistan") a4 =
    data.count("Afghanistan") a5 =
    data.count("Sri Lanka") a6 =
    data.count("West Indies")

    d={"UAE":a1,"India":a2,"Pakistan":a3,"Afganistan":a4,"Sri Lanka":a5,"West Indies":a6} print(d)


with open("u19.txt","r") as f: word_count(f)
```

```
{'UAE': 2, 'India': 5, 'Pakistan': 2, 'Afganistan': 1, 'Sri Lanka': 1, 'West Indies': 1}
```

In [ ]:

```

```