File Handling

1. File handling is an important part of any web application
2. There are different Functions are used in File Handling Concept:
    A. Creating
    B. Reading
    C. Update
    D. Delete
3. There are key function with files in Python is the [open()] function:
    A. open() function takes two parameteres:
        a. Filename
        b. mode

1. There are four types modes are used in File Handling:
    A. "r":
        a. Read - Defalt Value - open file for reading, error if the file does not exists
    B. "a":
        a. Append - open file for appending,error if the file does not exists
    C. "w":
        a. write - open file for writting,error if the file does not exists
    D. "x":
        a. Create - Create the specified file, error if the file does not exists

1. There are two modes are used to handled file in Python:
    A. Text:
        a. "t":
            i. Text mode
    B. Binary:
        a. "b":
            i. Binary mode (ex. images)

In [2]:
```
my_text = "Welcome to Data Science Class. It is based on Python Programming, a
nd R Programming"

my_file = open("my_file1.txt","x")
my_file.write(my_text)
my_file.close()
```

In [4]:
```
my_file = open("my_file1.txt","rt")
print(my_file.read())
```

```
Welcome to Data Science Class. It is based on Python Programming, and R Progr
amming
```

In [6]:
```
my_text = "\nMy name is Data Scientist"
my_file = open("my_file1.txt",'a')
my_file.write(my_text)
my_file.close()
```

In [7]:
```
my_file = open("my_file1.txt","rt")
print(my_file.read())
```

```
Welcome to Data Science Class. It is based on Python Programming, and R Progr
amming
My name is Data Scientist
```

In [9]:
```
my_text1 = "My college name is Imperial College of Engineering and Research, W
agholi"

my_file = open("college1.txt","x")
my_file.write(my_text1)
my_file.close()
```

In [10]:
```
my_file = open("college1.txt","rt")
print(my_file.read())
```

```
My college name is Imperial College of Engineering and Research, Wagholi
```

In [12]:
```
new_text = "All students are beloning to Data Science Class for location Pune"
my_file = open("college3.txt","a")
my_file.write(new_text)
my_file.close()

my_file = open("college3.txt","rt")
print(my_file.read())
```

```
All students are beloning to Data Science Class for location PuneAll students
are beloning to Data Science Class for location Pune
```

In [13]:
```
help(my_file.detach)
```

```
Help on built-in function detach:

detach() method of _io.TextIOWrapper instance
    Separate the underlying buffer from the TextIOBase and return it.

    After the underlying buffer has been detached, the TextIO is in an
    unusable state.
```

In [14]:
```
import os
```

In [16]:
```
os.remove("college1.txt")
```

In [17]:
```
# help(os)
```

In [18]:
```
import os

if os.path.exists("my_file.txt"):
    os.remove("my_file.txt")
    print("File has been successfully Deleted")
else:
    print("File does not exist on present location")
```

```
File has been successfully Deleted
```

In [33]:
```
# new_text = "All students are beloning to Data Science Class for location Pun
e"
# my_file = open("headbrain.csv","a")
# my_file.write(new_text)
# my_file.close()

my_file = open("college3.txt","r")
print(my_file.readline())
```

```
All students are beloning to Data Science Class for location PuneAll students
are beloning to Data Science Class for location Pune
```

1. Advanced Part II:
    A. Numpy
    B. Pandas
    C. Matplotlib
    D. Seaborn
    E. Scikit learn
    F. Statistics:
        a. Mean mode median
        b. missing values
        c. categorical data
        d. Numerical Data
    G. Python Topics Revision(2 Days)

1. Part III:
    A. Machine Learning
    B. Database:
        a. My-SQL
        b. MongoDB
    C. Version Control System (VCS):
        a. Git
        b. GitHub
    D. Flask (Python Framework)
    E. Deep Learning / NLP
    F. Libraries:
        a. Tensorflow
        b. OpenCV
    G. Project 1:
        a. Scratch to Deployement
        b. Project
    H. AWS:
        a. EC2
        b. S3
    I. Azure / Heroku
    J. Docker

In [ ]: