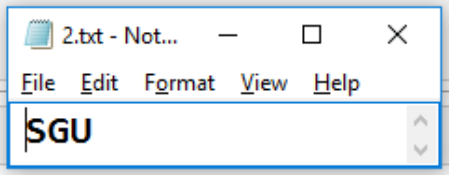
Experiment No. 9

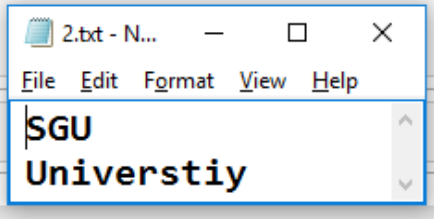
Aim: To implement programs based on File Handling.

Questions:

1. Write a python program to demonstrate file read, write and append operations.

```
In [3]: f = open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "r")
        print(f.readlines())
        f.close()

        ['SGU']

In [4]: f = open(r"C:\Users\adbelab15\Desktop\Yogesh\2.txt", "w")
        f.write("SGU")
        f.close()

In [ ]:

In [5]: f = open(r"C:\Users\adbelab15\Desktop\Yogesh\2.txt", "a")
        f.write("\nUniverstiy")
        f.close()

In [ ]:
```

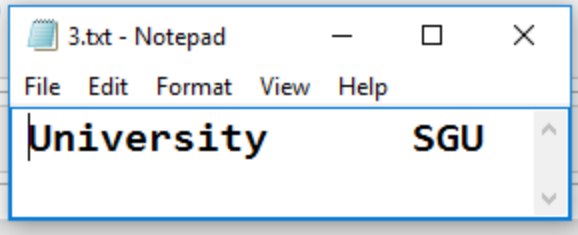




2. Write a python program to demonstrate exclusive(x) access mode of file operation.

```
In [6]: f = open(r"C:\Users\adbelab15\Desktop\Yogesh\2.txt", "x")
        print(f.readlines())
        f.close()

        ---------------------------------------------------------------
        -------------
        FileExistsError                           Traceback (most rece
        nt call last)
        <ipython-input-6-3fb762b74641> in <module>
        ----> 1 f = open(r"C:\Users\adbelab15\Desktop\Yogesh\2.txt",
        "x")
              2 print(f.readlines())
              3 f.close()

        FileExistsError: [Errno 17] File exists: 'C:\\Users\\adbelab15
        \\Desktop\\Yogesh\\2.txt'
```

```
In [7]: f = open(r"C:\Users\adbelab15\Desktop\Yogesh\3.txt", "x")
        f.write("University\tSGU")
        f.close()

In [ ]:
```



3. Write a python program to copy a text file to another file.

```
In [10]: f1 = open(r"C:\Users\adbelab15\Desktop\Yogesh\2.txt", "r")
         f2 = open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "w")
         for line in f1.readlines():
             f2.write(line)
         # f2.write(f1.readlines())
         f1.close()
         f2.close()

In [ ]:
```

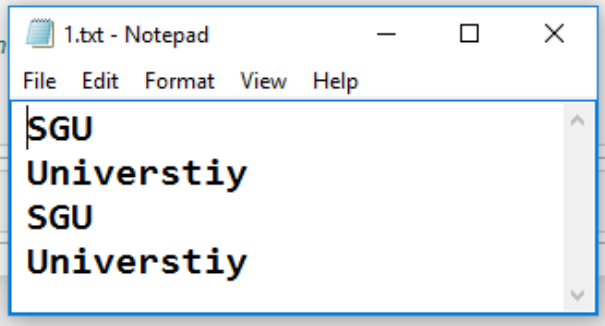
4. Write a python program to count no. of lines in a file.

```
In [12]: f2 = open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "r")
         count = 0
         for line in f2.readlines():
             count += 1
         print(count)
         # f2.write(f1.readlines())
         f2.close()
```

```
2
```

5. Write a python program to append a file with the contents of another file.

```
In [14]: f1 = open(r"C:\Users\adbelab15\Desktop\Yogesh\2.txt", "r")
         f2 = open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "a")
         for line in f1.readlines():
             f2.write(line)
         # f2.write(f1.readlin
         f1.close()
         f2.close()

In [ ]:
```



6. Write a python program to delete a sentence from the specific position in a file.

```
In [17]: def deleteSentence(n):
             with open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "r") :
                 lis = f.readlines()
                 print(lis)
                 del lis[n]
                 f.close()
             with open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "w") :
                 f.writelines(lis)
                 print(lis)
                 f.close()
         deleteSentence(3)
```

```
['SGU\n', 'Universtiy\n', 'SGU\n', 'University']
['SGU\n', 'Universtiy\n', 'SGU\n']
```

7. Write a python program to capitalize each word in a file.

```
def Capitalize():
    with open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "r") as f:
        lis = f.readlines()
        print(lis)
        f.close()
    with open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "w") as f:
        list1 = list()
        for word in lis:
            list1.append(word.title())
        f.writelines(list1)
        print(list1)
        f.close()
Capitalize()
```

```
['sGU\n', 'uNIVERSITY\n', 'sGU\n', 'uNIVERSITY']
['Sgu\n', 'University\n', 'Sgu\n', 'University']
```

8. Write a python program to search a word and replace it with another word for all the occurrences.

```
def Capitalize():
    with open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "r") as f:
        lis = f.readlines()
        print(lis)
        f.close()
    with open(r"C:\Users\adbelab15\Desktop\Yogesh\1.txt", "w") as f:
        list1 = list()
        for word in lis:
            list1.append(word.replace("Sgu", "SGU"))
        f.writelines(list1)
        print(list1)
        f.close()
Capitalize()
```

```
['Sgu\n', 'University\n', 'Sgu\n', 'University']
['SGU\n', 'University\n', 'SGU\n', 'University']
```