



A.Y. 2022-2023

**Subject: Python**

**SAP ID: 60004220253 – Devansh Mehta**

### **Experiment No. 06**

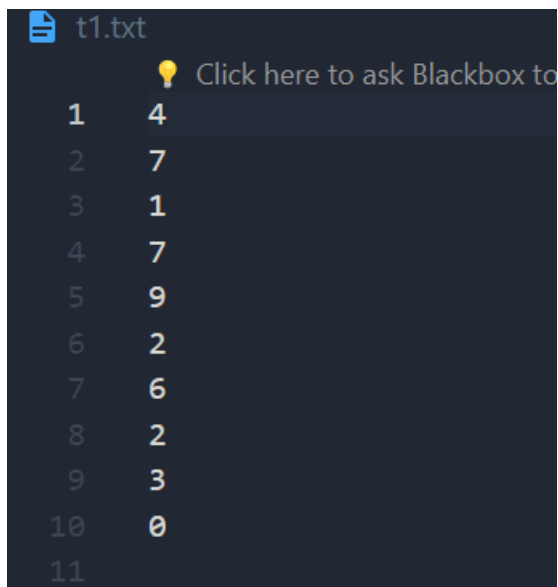
**Aim: To study and implement File Handling in Python.**

**Code:**

**Part A:**

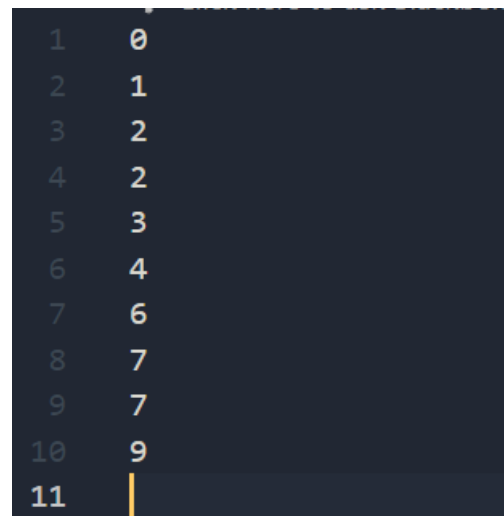
```
print("Enter 10 numbers")
with open('t1.txt','w') as f:
    for i in range(9):
        f.write(str(input("Enter a number"))+ "\n")
        f.write(str(input("enter a number"))+ "\n")
with open ("t1.txt","r") as f1 , open ("t2.txt","w") as f2:
    l= list()
    for i in f1:
        l.append(int(i))
    l.sort()
    for i in range(10):
        f2.write(str(l[i])+ "\n")
```

**File 1:**



```
t1.txt
1 4
2 7
3 1
4 7
5 9
6 2
7 6
8 2
9 3
10 0
11
```

**File 2:**



```
1 0
2 1
3 2
4 2
5 3
6 4
7 6
8 7
9 7
10 9
11
```

**Part B:**

```
fileread=open('t1.txt','r')
list=list()
f=fileread.read()
```



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```
f=f.split(' ')
for line in f:
    list.append(str(line))
    list.sort(key=lambda item:(item,len(item)))
print('Sorted in Lexographical order')
print(list)
filewrite=open('t2.txt','w')
for i in list:
    filewrite.write(str(i))
    filewrite.write('\n')
filewrite.close()
```

**File to sort:**

```
1 Hello World 29-11-2023
2
```

**Sorted File:**

```
29-11-2023

Hello
World
```

**Part C:**

```
fileread=open('t1.txt','r')
list=list()
f=fileread.read()
f=f.split(' ')
for line in f:
    list.append(str(line[::-1]))
    list.sort(key=lambda item:(item,len(item)))
print('Sorted in Lexographical order')
print(list)
filewrite=open('t2.txt','w')
for i in list:
    filewrite.write(str(i))
    filewrite.write('\n')
filewrite.close()
```

**Sorted File:**

```
1
2 3202-11-92
3 dlrow
4 olleH
5
```