In [6]:
```
#1.write a python program to read an entire text file.
def read(a):
        txt = open(a)
        print(txt.read())
a=input("enter the file name:")
read(a)
```

```
enter the file name:huthika1.txt
hi
good mrng
huthika
2nd year
b1 sec
gitam
bng
```

In [8]:
```
#2.Write a python program to read first n lines of a file.
my_file=open("huthika1.txt","r")
n=int(input("Enter no.of lines to read:"))
i=0
for line in my_file:
    if i<n:
        print(line)
        i+=1
    else:
        break
my_file.close()
```

```
Enter no.of lines to read:5
hi

good mrng

huthika
```

```
2nd year

b1 sec
```

In [1]:
```
#3.Write a Python program to append text to a file and display the tex
t.
my_file=open("huthika1.txt","a")
my_file.write("This is python assignment\n")
my_file1=open("saketh1.txt","r")
for line in my_file1:
    print(line)
my_file.close()
my_file1.close()
```

```
This is python assignment
```

In [4]:
```
#4.Write a Python program to read last n lines of a file.
my_file=open("huthika1.txt","r")
n=int(input("Enter no.of lines to read:"))
for line in (my_file.readlines()[-n:]):
    print(line)
my_file.close()
```

```
Enter no.of lines to read:5
2nd year

b1 sec

gitam

bng

This is python assignment
```

In [5]:
```
#5.Write a Python program to read a file line by line store it into a v
```

```
ariable.
my_file=open("huthika1.txt","r")
a=""
for line in my_file:
    a=a+line
print(a)
my_file.close()
```

```
hi
good mrng
huthika
2nd year
b1 sec
gitam
bng
This is python assignment
```

In [6]:
```
#6.Write a Python program to read a file line by line and store it into
 a list.
my_file=open("huthika1.txt","r")
l=[]
for line in my_file:
    l.append(line)
print(l)
my_file.close()
```

```
['hi\n', 'good mrng\n', 'huthika\n', '2nd year\n', 'b1 sec\n', 'gitam
\n', 'bng\n', 'This is python assignment\n']
```

In [4]:
```
#7.write a python program to read a file line by line and store it into
 array.
def file_read(fname):
    content_array=[]
    with open(fname) as f:
        for line in f:
            content_array.append(line)
        print(content_array)
file_read("huthika1.txt")
```

```
['hi\n', 'good mrng\n', 'huthika\n', '2nd year\n', 'b1 sec\n', 'gitam
\n', 'bng\n', 'This is python assignment\n']
```

In [8]:
```
#8.write a python program to count the number of lines in a text file.
fname = input("Enter file name: ")
num_lines = 0
with open(fname, 'r') as f:
    for line in f:
        num_lines += 1
print("Number of lines:")
print(num_lines)
```

```
Enter file name: huthika1.txt
Number of lines:
8
```

In [9]:
```
#9.write a python program to get the file size of a plain file.
def file_size(fname):
    import os
    statinfo =os.stat(fname)
    return statinfo.st_size
print("file size in bytes of a plain file:" ,file_size("huthika1.txt"))
```

```
file size in bytes of a plain file: 74
```

In [14]:
```
#10.write a python program to copy the contents of a file to another fi
le.
from shutil import copyfile
copyfile('huthika1.txt','puru.txt')
```

Out[14]:
```
'puru.txt'
```

In [11]:
```
#11.python program to sum all the items in the list.
total=0
list=[1,5,7,9,8,20]
for i in range(0,len(list)):
```

```
    total=total+list[i]
print("sum of all elements in the list:",total)
```

```
sum of all elements in the list: 50
```

In [5]:
```
#12.Python program to multiply all elements in the list
def multiply(mylist):
    result=1
    for x in mylist:
        result=result*x
    return result
list=[3,2,4,8,9,8]
print(multiply(list))
```

```
13824
```

In [5]:
```
#13.Python program to find largest and smallest number in the list.

list=[1,78,90,12,100]
print("the smallest number in the list is:",min(list))
print("the largest number in the list is:",max(list))
```

```
the smallest number in the list is: 1
the largest number in the list is: 100
```

In [6]:
```
#14.python program to remove duplicates from a list.
a=[]
n= int(input("Enter the number of elements in list:"))
for x in range(0,n):
    element=int(input("Enter element" + str(x+1) + ":"))
    a.append(element)
b = set()
unique = []
for x in a:
    if x not in b:
        unique.append(x)
        b.add(x)
print("Non-duplicate items:")
print(unique)
```

```
Enter the number of elements in list:7
Enter element1:7
Enter element2:9
Enter element3:7
Enter element4:8
Enter element5:9
Enter element6:2
Enter element7:5
Non-duplicate items:
[7, 9, 8, 2, 5]
```

In [9]:
```python
#15.python program to check a list is empty or not.

def check(list):
    if len(list)== 0:
        return 0
    else:
        return 1
list=[]
if check(list):
    print("the list is not empty")
else:
    print("empty list")
```

```
empty list
```

In [8]:
```python
#16.Python program to clone or copy a list.
l1=[10,20,30,40]
l2=[]
for i in l1:
    l2.append(i)
print(l2)
```

```
[10, 20, 30, 40]
```

In [13]:
```python
#17.Write a Python program to print a specified list after removing the
 0th,4th,5th elements.
l= ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']
```

```
l= [x for (i,x) in enumerate(l) if i not in (0,4,5)]
print(l)
```

```
['Green', 'White', 'Black']
```

In [14]:
```
#"18.Write a python program to print the numbers of a specified list af
ter removing even number form it.
a = [0,1,2,3,4,5,6,7,8,9,10]
a = [x for x in a if x%2!=0]
print(a)
```

```
[1, 3, 5, 7, 9]
```

In [10]:
```
#19.Write a Python program to shuffle and print a specified list.
from random import shuffle
a = [1,3,45,56,78,99]
shuffle(a)
print(a)
```

```
[56, 3, 1, 45, 99, 78]
```

In [3]:
```
#20.write a python program to get the difference b/w the two lists
list1 = [2, 3, 5, 7, 8]
list2=[1, 2, 4, 6, 7, 8]
diff_list1_list2 = list(set(list1) - set(list2))
diff_list2_list1 = list(set(list2) - set(list1))
total_diff = diff_list1_list2 + diff_list2_list1
print(total_diff)
```

```
[3, 5, 1, 4, 6]
```

In [ ]:

In [ ]: