In [3]:
```
#1.write a python program to read an entire text file.
my_file=open("gitam.txt","r")
for line in my_file:
    print(line)
my_file.close()
```

```
hi

this is likhitha

2nd year

CSE dept

A-sec

GITAM university

bengaluru
```

In [5]:
```
#2.Write a python program to read first n lines of a file.
my_file=open("gitam.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:4
hi

this is likhitha

2nd year

CSE dept
```

In [7]:
```
#3.Write a Python program to append text to a file and display the text.
my_file=open("gitam.txt","a")
my_file.write("This is python assignment\n")
my_file1=open("likitha1.txt","r+")
for line in my_file1:
    print(line)
my_file.close()
my_file1.close()
```

```
This is python assignment
```

In [9]:
```
#4.Write a Python program to read last n lines of a file.
my_file=open("gitam.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:3
GITAM university



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```

In [10]:
```
#5.Write a Python program to read a file line by line store it into a variable.
my_file=open("gitam.txt","r")
a=""
for line in my_file:
    a=a+line
print(a)
my_file.close()
```

```
hi

this is likhitha

2nd year

CSE dept

A-sec

GITAM university

bengaluru
```

In [11]:
```
#6.Write a Python program to read a file line by line and store it into a list.
my_file=open("gitam.txt","r")
l=[]
for line in my_file:
    l.append(line)
print(l)
my_file.close()
```

```
['hi\n', '\n', 'this is likhitha\n', '\n', '2nd year\n', '\n', 'CSE dept\n', '\n', 'A-sec\n',
'\n', 'GITAM university\n', '\n', 'bengaluru']
```

In [12]:
```
#7.write a python program to read a file line by line and store it into array.
my_file=open("gitam.txt","r")
l=[]
for line in my_file:
    l.append(line)
print(l)
my_file.close()
```

```
['hi\n', '\n', 'this is likhitha\n', '\n', '2nd year\n', '\n', 'CSE dept\n', '\n', 'A-sec\n',
'\n', 'GITAM university\n', '\n', 'bengaluru']
```

In [18]:
```
#8.write a python program to count the number of lines in a text file.
my_file=open("gitam.txt","r")
count=0
for line in my_file:
    count+=1
print("No.of lines in gitam.txt:",count)
```

```
No.of lines in gitam.txt: 7
```

In [20]:
```
#9.write a python program to get the file size of a plain file.
import os
size=os.path.getsize("gitam.txt")
print("Size of gitam.txt:",size,"bytes")
```

```
Size of gitam.txt: 97 bytes
```

In [16]:
```
#10.write a python program to copy the contents of a file to another file.
from shutil import copyfile
copyfile('gitam.txt','likitha1.txt')
```

Out[16]:
```
'likitha1.txt'
```

In [15]:
```
#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 [2]:
```
#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]
print(multiply(list))
```

```
24
```

In [3]:
```
#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 [ ]:
```
#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
```

In [1]:
```
#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 [3]:
```
#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 [3]:
```
#17.Write a Python program to print a specified list after removing the 0th,4th,5th element
s.
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 [4]:
```
#18.Write a python program to print the numbers of a specified list after removing even numb
er 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 [5]:
```
#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, 78, 99, 45, 1]
```

In [5]:
```
#20.Write a Python program to get the difference between the two lists.
l1=[10,20,30,40,50,60,70,80,90,100]
l2=[1,2,3,4,5,6,7,8,9,10]
l3=[]
if len(l1)==len(l2):
    i,j=0,0
    while i<len(l1) and j<len(l2):
        l3.append(l1[i]-l2[j])
        i+=1
        j+=1
    print("Difference between two lists:",l3)
else:
    print("No.of elements are different.Not able to do difference")
```

```
Difference between two lists: [9, 18, 27, 36, 45, 54, 63, 72, 81, 90]
```