today class objectives

- Modules and Packages
- File Handling Techniques

Moduels

In [1]:

```
import keyword
```

In [5]:

```
keyword.kwlist
```

Out[5]:

```
['False',
 'None',
 'True',
 'and',
 'as',
 'assert',
 'async',
 'await',
 'break',
 'class',
 'continue',
 'def',
 'del',
 'elif',
 'else',
 'except',
 'finally',
 'for',
 'from',
 'global',
 'if',
 'import',
 'in',
 'is',
 'lambda',
 'nonlocal',
 'not',
 'or',
 'pass',
 'raise',
 'return',
 'try',
 'while',
 'with',
 'yield']
```

- modelue: Module is a python file it contains functions and classes and variables

In [5]:

```
import cal
```

In [8]:

```
cal.add(25,65)
```

Out[8]:

```
90
```

In [9]:

```
cal.sub(25,45)
```

Out[9]:

```
-20
```

In [11]:

```
cal.mul(2,5)
```

Out[11]:

```
10
```

In [12]:

```
import time
time.ctime()
```

Out[12]:

```
'Sat May 23 09:54:57 2020'
```

In [3]:

```
import random
random.randint(2,56)
```

Out[3]:

```
44
```

In [6]:

```
dir(cal)
```

Out[6]:

```
['__builtins__',
 '__cached__',
 '__doc__',
 '__file__',
 '__loader__',
 '__name__',
 '__package__',
 '__spec__',
 'add',
 'mul',
 'sub']
```

In [4]:

```
dir(random)
```

Out[4]:

```
['BPF',
 'LOG4',
 'NV_MAGICCONST',
 'RECIP_BPF',
 'Random',
 'SG_MAGICCONST',
 'SystemRandom',
 'TWOPI',
 '_BuiltinMethodType',
 '_MethodType',
 '_Sequence',
 '_Set',
 '__all__',
 '__builtins__',
 '__cached__',
 '__doc__',
 '__file__',
 '__loader__',
 '__name__',
 '__package__',
 '__spec__',
 '_acos',
 '_bisect',
 '_ceil',
 '_cos',
 '_e',
 '_exp',
 '_inst',
 '_itertools',
 '_log',
 '_os',
 '_pi',
 '_random',
 '_sha512',
 '_sin',
 '_sqrt',
 '_test',
 '_test_generator',
 '_urandom',
 '_warn',
 'betavariate',
 'choice',
 'choices',
 'expovariate',
 'gammavariate',
 'gauss',
 'getrandbits',
 'getstate',
 'lognormvariate',
 'normalvariate',
 'paretovariate',
 'randint',
 'random',
 'randrange',
 'sample',
 'seed',
 'setstate',
 'shuffle',
 'triangular',
```

```
 'uniform',
 'vonmisesvariate',
 'weibullvariate']
```

Packages

In [20]:

```
from samplepackage import *
```

In [9]:

```
hello.ECE()
```

Out[9]:

```
'Welcome to ECE Dept'
```

In [10]:

```
hello.IT()
```

Out[10]:

```
'Welcome to IT Dept'
```

In [13]:

```
cal.add(25,14)
```

Out[13]:

```
39
```

In [14]:

```
cal.mul(2,6)
```

Out[14]:

```
12
```

In [21]:

```
sample.hello()
```

Out[21]:

```
'Hello EveryOne'
```

In [22]:

```
sample.Hii()
```

Out[22]:

```
'Hii everyone'
```

In [5]:

```
from samplepackage import *
```

In [4]:

```
cal.add(14,25)
```

Out[4]:

```
39
```

from package import module

File Handling Techniques

- to store the data

- 1.open("filename.txt","mode") -> open the existing file, if not exit it will create a new file
- 2.write() - write the data in file
- 3.read() - read method is user for read the data in a file
- 4.readlines() - this is user for read the lines
- 5.close() - close the file

modes

- write mode ---> w
- read mode ---> r
- append mode---> a

In [11]:

```
file=open('C:\\Users\\LENOVO_PC\\Desktop\\files\\sdc.txt','w')

data="Andhra Pradesh State Skill Development corporation"
file.write(data)
file.close()
print("Done")
```

```
Done
```

In [5]:

```
with open('student.txt','w') as file:
    data="andhra pradesh"
    file.write(data)
    print("done")
```

done

In [13]:

```
# Read the data in a file
file=open('C:/Users/LENOVO_PC/Desktop/Day6/samplepackage/sdc.txt','r')
data=file.read()
print(data)
file.close()
```

Andhra Pradesh State Skill Development corporation

In [17]:

```
file=open('C:\\Users\\LENOVO_PC\\Desktop\\files\\sdc.txt','a')
data="\n gov of Andhra Pradesh"
file.write(data)
file.close()
print("Done")
```

Done

In [18]:

```
file=open('C:\\Users\\LENOVO_PC\\Desktop\\files\\sdc.txt','r')
for i in file:
    print(i)
```

Andhra Pradesh State Skill Development corporationgov of Andhra Pradesh

 gov of Andhra Pradesh

NOTE THE TASK

In [3]:

```
file=open('C:\\Users\\LENOVO_PC\\Desktop\\files\\student.txt','a')
count=int(input("enter the student count:"))
for i in range(1,count+1):
    sno=input("enter the sno:")
    name=input("enter the name:")
    email=input("enter the email:")
    phone=input("enter the phone number:")
    file.write("\n"+sno+"\t"+name+'\t'+email+"\t"+phone+"\n")
file.close()
```

```
enter the student count:1
enter the sno:ranga
enter the name:ranaga
enter the email:gmail.com
enter the phone number:987456311
```

In [6]:

```
file=open('C:\\Users\\LENOVO_PC\\Desktop\\files\\sdc.txt','r')
for i in file:
    print(i)
```

```
Andhra Pradesh State Skill Development corporationgov of Andhra Pradesh

 gov of Andhra Pradesh1 srinivas        nivas@gmail.com 9874563210

2       viswanth        viswanth@gmail.com      2587463211
```

copy the sdc.txt data in new file in reverse order

In [8]:

```
file=open('output.txt','w')
with open('C:\\Users\\LENOVO_PC\\Desktop\\files\\sdc.txt','r') as myfile:
    data=myfile.read()
data1=data[::-1]
file.write(data1)
file.close()
print("done")
```

```
done
```

count the words in sdc.txt file

In [10]:

```
s='welcome to python class'
s1=s.split()
len(s1)
```

Out[10]:

```
4
```

In [11]:

```
with open('C:\\Users\\LENOVO_PC\\Desktop\\files\\sdc.txt','r') as file:
    data=file.readlines()
    for i in data:
        word=i.split()
        print(len(word))
```

```
9
7
4
```

In [ ]:

```

```