MODULES

A module is collection of varaiable(gv),fun,and classes.

used to re-use fun anywhere in the program or outside of the program by using fun call on

--python has 2 approches to define features of module.--

1.import statemet

2.from .....import stat

1.import statemet

a.import modulename

b.import modulename1,modulename2,...modulename-n

c.import module as alias name

d.import module as alias name1,....alias

2.from import statement

a.from module name import varname,funname

b.from module name import varname as alias name,funname as alias name,classname as alias name

c.from module name imp

module

reused fun anywhere of program or another program by using fun call only by using fun call only

no of approaches to dev mod

1.import module

n me

2.import m name1,m name 2,m n

a e-n

3.import m name as alia

s name

4.import m name1 as alias name,m name2 as alias name, m name-n as alias name.

1.from module import var name,fun name,class name

2.form module import varn as alias nam,funn as alias name,clan as alias name.

3.from aop import addop as a,subop as b,mulop as c.

4.form module i

In [ ]:
```
#mathsinfo.py
pi=3.13
e=2.72
#hera pi and e are called global var
```

In [ ]:
```
#se1.py
import mathsinfo
print('value of pi=',mathsinfo.pi)
print('value of e=',mathsinfo.e)
```

In [ ]:
```
#aop.py
def sumop(a,b):
    print('sum of {} and {} ={}'.format(a,b,a+b))
def subop(a,b):
    print('substraction of {} and {} ={}'.format(a,b,a-b))
def mulop(a,b):
    print('multiplicatioin of {} and {} ={}'.format(a,b,a*b))
```

In [ ]:
```
#se2.py
import aop
aop.sumop(12,12)
aop.subop(123,4)
aop.mulop(23,54)
```

In [ ]:
```
#se3.py
import icici
print('bank name',icici.bname)
print('bank address',icici.add)
icici.simpleint()
```

In [ ]:
```
#icici.py
bname='icici'
add='hyd'
def simpleint():
    p=float(input('enterr your principal amount ='))
    t=float(input('enter yout time ='))
    r=float(input('enter your rate ='))
    si=(p*t*r)/100
    totamt=p+si
    print('='*50)
    print('DETAILS OF SIMPLE INTEREST')
    print('='*50)
    print('rate of principal amount ={}'.format(p))
    print("total time ={}".format(t))
    print('rate of interest ={}'.format(r))
    print('simple interest ={}'.format(si))
    print('total amount ={}'.format(totamt))
```

In [ ]:
```
#tempCodeRunnerFile.py
import icici
print('bank name',icici.bname)
print('bank address',icici.add)
icici.simpleint()
```

In [ ]:
```
#year.py
from calendar import calendar as c
year=int(input('enter your year :'))
print(c(year))
```

In [ ]:
```
#calenderex1.py
from calendar import month
m=int(input('enter your month :'))
if m in range(1,13):
    y=int(input('enter your year :'))
    print(month(y,m))
```

In [ ]:
```
#calenderex2.py
from calendar import month as m1 ,calendar as c
m=int(input('enter your month :'))
if m in range(1,13):
    y=int(input('enter year :'))
    print(m1(y,m))
    year=int(input('enter your year :'))
```

```
    print(c(year))
```

In [ ]:
```
#approachex1.py

import mathsinfo
import aop
import icici
print('='*50)
print('value of pi',mathsinfo.pi)
print('value of e',mathsinfo.e)
print('='*50)
aop.sumop(12,43)
aop.subop(23,42)
aop.mulop(43,23)
print('='*50)
print('bank name =',icici.bname)
print('bank address =',icici.add)
icici.simpleint()
```

In [ ]:
```
#approachex2.py

import mathsinfo,aop,icici
print('='*50)
print('value of pi',mathsinfo.pi)
print('value of e',mathsinfo.e)
print('='*50)
aop.sumop(12,43)
aop.subop(23,42)
aop.mulop(43,23)
print('='*50)
print('bank name =',icici.bname)
print('bank address =',icici.add)
icici.simpleint()
```

In [ ]:
```
#approachex3.py

import mathsinfo as m
import aop as a
import icici as i
print('='*50)
print('value of pi =',m.pi)
print('value of e=',m.e)
print('='*50)
a.sumop(12,42)
a.subop(234,5234)
a.mulop(4345,5323)
print('='*50)
print('bank name =',i.bname)
print('bank address =',i.add)
i.simpleint()
```

In [ ]:
```
#approachex4.py

from mathsinfo import pi,e
from aop import sumop,subop,mulop
from icici import bname,add,simpleint
print('='*50)
print("value of pi =",pi)
print('value of e',e)
print('='*50)
sumop(234,53)
subop(234,5242)
mulop(2345,4523)
print('='*50)
print('bank name =',bname)
print('bank address =',add)
simpleint()
```