1. Write a Python program to find the factorial of a given number using recursion

SOURCE CODE:

```
def fact(n):
    if(n==1) or(n==0):
        return 1
    else:
        return n*fact(n-1)
while True:
    n=int(input("enter n value: "))
    print("factorial of",n,"is :",fact(n))
    ch=input("Do you want another Y/N :")
    if(ch=='y' or ch=='Y'):
        continue
    else:
        break
```

```
enter n value: 5
factorial of 5 is : 120
Do you want another Y/N :n
```

2.Create a mapping from three character month name to month number. Ask the user for month either in lower or upper .print the month number corresponding to the month user entered.

SOURCE CODE:

```
months="jan feb mar apr may jun jul aug sep oct nov dec"
months=months.split(" ")
months1={}
for i in range(len(months)):
    months1[months[i]]=i+1
text=input("Enter the month: ")
mon=text[:3].lower()
print("corresponding month number is :{}".format(months1[mon]))
```

```
Enter the month: november corresponding month number is :11
```

3. You are given data strings of the form "29 Jul,2009" or "4 January 2008", in other words a number, a string and another number, with a comma sometimes separating the items. Write a program that takes such a string as input and print a tuple as output with all integers as date string.

SOURCE CODE:

```
enter date: 27 november 2004
the date is:(2004, 11, 27)
```

4.Read the pendulum.txt file. Print only the second column of the file.

SOURCE CODE:

```
f=open('pendulum.txt','r')
w=open('copy.txt','w')
for i in f:
    try:
        fields=i.split()
        w.write(fields[1]+'\n')
    except:
        print(" ")
f.close()
w.close()
```

```
1.4399e+00
1.5174e+00
 1.4988e+00
1.5326e+00
1.5297e+00
1.5372e+00
1.6094e+00
1.6352e+00
1.5843e+00
   .6643e+00
 1.5987e+00
1.6585e+00
1.6317e+00
1.7074e+00
1.6654e+00
 1.6964e+00
1.7706e+00
1.7622e+00
1.7260e+00
1.8089e+00
1.7905e+00
1.7428e+00
   .8381e+00
 1.8182e+00
1.7865e+00
1.7995e+00
1.8625e+00
1.8623e+00
1.8383e+00
1.8593e+00
1.8944e+00
1.9598e+00
 1.9244e+00
1.9397e+00
1.9440e+00
  .9718e+00
1.9383e+00
 1.9555e+00
2.0006e+00
2.0006e+00
1.9841e+00
2.0066e+00
2.0493e+00
2.0503e+00
2.0214e+00
```

MBOX

From stephen.marquard@uct.ac.za Sat Jan 5 09:14:16 2008

Return-Path: <postmaster@collab.sakaiproject.org>

Received: from murder (mail.umich.edu [141.211.14.90])

by frankenstein.mail.umich.edu (Cyrus v2.3.8) with LMTPA;

Sat, 05 Jan 2008 09:14:16 -0500

X-Sieve: CMU Sieve 2.3

Received: from murder ([unix socket])

by mail.umich.edu (Cyrus v2.2.12) with LMTPA;

Sat, 05 Jan 2008 09:14:16 -0500

Received: from holes.mr.itd.umich.edu (holes.mr.itd.umich.edu [141.211.14.79])

by flawless.mail.umich.edu () with ESMTP id m05EEFR1013674;

Sat, 5 Jan 2008 09:14:15 -0500

Received: FROM paploo.uhi.ac.uk (app1.prod.collab.uhi.ac.uk [194.35.219.184])

BY holes.mr.itd.umich.edu ID 477F90B0.2DB2F.12494;

5 Jan 2008 09:14:10 -0500

Received: from paploo.uhi.ac.uk (localhost [127.0.0.1])

by paploo.uhi.ac.uk (Postfix) with ESMTP id 5F919BC2F2;

Sat, 5 Jan 2008 14:10:05 +0000 (GMT)

Message-ID: <200801051412.m05ECIaH010327@nakamura.uits.iupui.edu>

Mime-Version: 1.0

Content-Transfer-Encoding: 7bit

Received: from prod.collab.uhi.ac.uk ([194.35.219.182])

by paploo.uhi.ac.uk (JAMES SMTP Server 2.1.3) with SMTP ID 899

for <source@collab.sakaiproject.org>;

Sat, 5 Jan 2008 14:09:50 +0000 (GMT)

Received: from nakamura.uits.iupui.edu (nakamura.uits.iupui.edu [134.68.220.122])

by shmi.uhi.ac.uk (Postfix) with ESMTP id A215243002

for <source@collab.sakaiproject.org>;

5. Write a program to read a file called mbox.txt and display the no .of lines containing a string @ucb.ac.za.

Source code:

```
import re
f=open('mbox.txt','r')

pattern=re.compile("@uct.ac.za")

count=0

for i in f:
    for match in re.finditer(pattern,i):
        count+=1

print("No lines that has @uct.ac.za is: {}".format(count))
```

Output:

D:\programming>python D:\programming\records\mboc1.py no of lines contaning pattern is 408

6. Write a python program to read file called mbox.txt display all the lines that starts with 'X' '-'(ex:X-name:).

SOURCE CODE:

```
import re
f=open('mbox.txt','r')
text="X-"
lines=f.readlines()
for line in lines:
   if text in line:
        line=line.split(" ")
        if text in line[0]:
        print (line)
```

```
', '-f\n']

['X-Content-Type-Outer-Envelope:', 'text/plain;', 'charset=UTF-8\n']

['X-Content-Type-Message-Body:', 'text/plain;', 'charset=UTF-8\n']

['X-OSPAM-Result:', 'Innocent\n']

['X-OSPAM-Processed:', 'Thu', 'Oct', '25', '17:19:10', '2007\n']

['X-OSPAM-Prochability:', '0.0000\n']

['X-Sieve:', 'ONU', 'Sieve', '2.3\n']

['X-Authentication-Warming:', 'nakamura.uits.iupui.edu:', 'apache', 'set', 'sender', 'to', 'rjlowe@iupui.edu', 'using', '-f\n']

['X-Content-Type-Outer-Envelope:', 'text/plain;', 'charset=UTF-8\n']

['X-CSPAM-Result:', 'Innocent\n']

['X-OSPAM-Processed:', 'Thu', 'Oct', '25', '16:37:54', '2007\n']

['X-OSPAM-Processed:', 'Thu', 'Oct', '25', '16:37:54', '2007\n']

['X-OSPAM-Prochability:', '0.0000\n']

['X-Sieve:', 'OWU, 'Sieve', '2.3\n']

['X-Content-Type-Message-Body:', 'text/plain;', 'charset=UTF-8\n']

['X-Content-Type-Message-Body:', 'text/plain;', 'charset=UTF-8\n']

['X-Content-Type-Outer-Envelope:', 'text/plain;', 'charset=UTF-8\n']

['X-Content-Type-Outer-Envelope:', 'text/plain;', 'charset=UTF-8\n']

['X-Content-Type-Message-Body:', 'text/plain;', 'charset=UTF-8\n']

['X-OSPAM-Result:', 'Innocent\n']

['X-OSPAM-Processed:', 'Thu', 'Oct', '25', '15:47:33', '2007\n']

['X-OSPAM-Processed:', 'Thu', 'Oct', '25', '15:46:10', 'apache', 'set', 'sender', 'to', 'ray@media.berkeley.edu', 'using', '-f\n']

['X-OSPAM-Processed:', 'Thu', 'Oct', '25', '15:36:10', '2007\n']

['X-OSPAM-Processed:', 'Thu', 'Oct',
```

7. Write a python program to demonstrate the shape class

```
class Shape:
  def area(self):
     print("Area of the shape")
class rectangle(Shape):
  def area(self):
     A=int(input("Enter length of the rectangle:"))
     B=int(input("Enter breadth of the rectangle:"))
     print("Area of the rectangle is: {}".format(A*B))
class circle(Shape):
  def area(self):
     A=int(input("Enter radius of the circle:"))
     print("Area of the circle is: {}".format(3.14*pow(A,2)))
obj1=Shape()
obj2=rectangle()
obj3=circle()
obj1.area()
obj2.area()
obj3.area()
```

OUTPUT:

Area of the shape Enter length of the rectangle:27 Enter breadth of the rectangle:11 Area of the rectangle is: 297 Enter radius of the circle:7 Area of the circle is: 153.86 8. Write a python program to calculate the student marks by using methods create, search, delete, display etc.

```
class student:
  def init(self):
     self.rollno = 0
     self.regno=0
     self.sub1=0
     self.sub2=0
     self.sub3=0
     self.sub4=0
     self.sub5=0
     self.name=" "
     self.perc=0
  def create(self):
       self.name=input("enter your name")
       self.rollno=int(input("enter your rollno"))
       self.regno=input("enter your regno")
       self.sub1=int(input("enter maths marks"))
       self.sub2=int(input("enter DBMS marks"))
       self.sub3=int(input("enter PYTHON marks"))
       self.sub4=int(input("enter DAA marks"))
       self.sub5=int(input("enter WT marks"))
       self.perc=((self.sub1+self.sub2+self.sub3+self.sub4+self.sub5)/500)*100
       print("student record is created")
  def display(self):
       regg=input("Enter register number")
       for i in list1:
          if i.regno==regg:
            print("student name: ",i.name)
            print("roll number: ",i.rollno)
```

```
print("register number: ",i.regno)
            print(" maths marks: ",i.sub1)
            print(" DBMS marks: ",i.sub2)
            print(" PYTHON marks: ",i.sub3)
            print(" DAA marks: ",i.sub4)
            print(" WT marks: ",i.sub5)
  def search(self):
     c=input("enter regno to search record: ")
    for i in list1:
       if i.regno==c:
          print("student name: ",i.name)
          print("regdno: ",i.regno)
          print("rollno: ",i.rollno)
         print("percentage: " ,i.perc)
  def update(self):
    n=input("enter regno to update record:")
    for i in list1:
       if i.regno==n:
          while True:
            print("which content you want to update")
            print("1.name\n2.rollno\n3.maths marks\n4.DBMS marks\n5.PYTHON
marks\n6.DAA marks\n7.WT marks")
            ch=int(input("enter your choice:"))
            if ch==1:
              n1=input("enter updated name:")
              i.name=n1
            elif ch==2:
               n1=int(input("enter updated roll number :"))
              i.rollno=n1
```

```
elif ch==3:
               n1=int(input("enter updated s1 marks :"))
               i.sub1=n1
            elif ch==4:
               n1=int(input("enter updated s2 marks :"))
               i.sub2=n1
            elif ch==5:
               n1=int(input("enter updated s3 marks :"))
               i.sub3=n1
            elif ch==6:
               n1=int(input("enter updated s4 marks :"))
               i.sub4=n1
            elif ch==7:
               n1=int(input("enter updated s5 marks :"))
               i.sub5=n1
            else:
               print("please enter a valid input 1-7")
            choice=input("do you to update any other y/n:")
            if choice=="n" or ch=="N":
               break
  def delete(self):
     rgg=input("enter register number")
     for i in list1:
       if i.regno==rgg:
          list1.remove(i)
          print("student record is deleted")
list1=[]
ch=1
print("student records")
```

```
while ch!=0:
  ob=student()
  print("\n1.create\n2.display\n3.search\n4.delete\n5.update\n6.exit")
  ch=int(input("enter your choice : "))
  if (ch==1):
     ob.create()
     list1.append(ob)
  elif (ch==2):
     for i in list1:
          print("student name:",i.name)
          print("regdno:",i.regno)
          print("rollno:",i.rollno)
          print("percentage:",i.perc)
  elif (ch==3):
     ob.search()
  elif (ch==4):
     ob.delete()
  elif (ch==5):
     ob.update()
  elif (ch==6):
     print("exiting")
     break
  else:
     print("invalid choice")
```

output:

```
D:\programming>python D:\programming\records\studentclass.py
student records
1.create
2.display
3. search
4.delete
5.update
6.exit
enter your choice : 1
enter your name: akhil
enter your rollno: 130
enter your regno: y20ait519
enter maths marks: 74
enter DBMS marks: 75
enter PYTHON marks: 92
enter DAA marks: 93
enter WT marks: 91
student record is created
1.create
2.display
3.search
4.delete
5.update
6.exit
enter your choice : 3
enter regno to search record: y20ait519
student name: akhil
regdno: y20ait519
rollno: 130
percentage 85.0
1.create
```

```
2.display
3.search
4.delete
5.update
6.exit
enter your choice: 1
enter your name: jashwanth
enter your rollno: 128
enter your regno: y20ait516
enter maths marks: 90
enter DBMS marks: 92
enter PYTHON marks: 94
enter DAA marks: 96
enter DAA marks: 96
enter WT marks: 92
student record is created
```

```
2.display
  3.search
  4.delete
  5.update
 enter your choice : 5
enter regno to update recordy20ait516
  which content you want to update
  2.rollno
  3.maths marks
  4.DBMS marks
  5.PYTHON marks
  6.DAA marks
  7.WT marks
 enter updated s1 marks :76
do you to update any other y/n:n
  2.display
  3.search
  4.delete
  5.update
 enter your choice : 2 student name: akhil
  regdno: y20ait519
rollno: 130
percentage: 85.0
student name: jashwanth
regdno: y20ait516
rollno: 128
percentage: 92.800000000000001
```

```
1.create
2.display
3.search
4.delete
5.update
6.exit
enter your choice: 4
enter register numbery20sit519
student record is deleted

1.create
2.display
3.search
4.delete
5.update
6.exit
enter your choice: 2
student name: jashwanth
regdno: y20sit516
rollno: 128
percentage: 92.800000000001

1.create
2.display
3.search
4.delete
5.update
6.exit
enter your choice: 6
supdate
6.exit
enter your choice: 6
exit enter your choice: 6
exit enter your choice: 6
exit enter your choice: 6
```

9. Write a python program to demonstrate the Bank account using methods create, deposite, withdraw, display etc.

```
class bank_account():
  def __init__(self):
     self.balance=0
     self.account=0
     self.name=""
  def create(self):
     self.name=input("enter name of the bank")
     self.balance=int(input("enter the opening balance"))
     self.account=int(input("enter account number"))
     print("account create sucessfully")
     print("your bank name is:",self.name)
  def deposite(self):
    d=int(input("enter account number"))
    if d==self.account:
       b=int(input("how much you want deposite"))
       self.balance+=b
       print("money deposite sucessfully")
       print("total amount is:",self.balance)
  def withdraw(self):
     w=int(input("enter your account number"))
     if w==self.account:
       h=int(input("enter an amount to withdraw"))
       self.balance-=h
       print("money is debited",w)
       print("total amount is:",self.balance)
  def display(self):
     print("account name is :",self.name)
     print("account number:",self.account)
     print("total amount",self.balance)
s=bank account()
while True:
  print("\n1.create\n2.deposite\n3.withdraw\n4.display")
  ch=int(input("enter your choice"))
  if ch==1:
     s.create()
  elif ch==2:
     s.deposite()
  elif ch==3:
     s.withdraw()
```

```
elif ch==4:
    s.display()
else:
    print("invalid choice")
    c=input("do you want to continue Y/N")
    if c=='N' or c=='n':
        break;
```

Output:

```
1.create
2.deposite
3.withdraw
4.display
enter your choice:1
enter name of the bank:SBI
enter the opening balance:7800000
enter account number:4546
account create sucessfully
your bank name is: SBI

1.create
2.deposite
3.withdraw
4.display
enter your choice:2
enter account number:4546
how much you want deposite:78900
money deposite sucessfully
total amount is: 7878900

1.create
2.deposite
3.withdraw
4.display
enter your choice:4
account number:4546
how much you choice:4
account number:4546
```

total amount: 7800000

```
1.create
2.deposite
3.withdraw
4.display
enter your choice:3
enter your account number:4546
enter an amount to withdraw78900
money is debited 4546
total amount is: 7800000

1.create
2.deposite
3.withdraw
4.display
enter your choice:
```

<u>10.</u>Write a python program to demonstrate database operations to persist student details using methods create, update, search, delete etc.,

```
import sqlite3
conn=sqlite3.connect('abc.db')
cur = conn.cursor()
cur.execute("SELECT count(name) FROM sqlite_master WHERE type='table' AND
name='STUDENTS2' "')
if cur.fetchone()[0]==0:
  cur.execute('CREATE TABLE STUDENTS2 ( REGD varchar(10) PRIMARY
KEY ,NAME VARCHAR(18),FATHERNAME VARCHAR(18),ADDRESS
VARCHAR, MATH_MARKS NUMBER, OOPS_MARKS NUMBER, DS_MARKS
NUMBER, PERCENTAGE NUMBER )')
  print("table created")
  conn.commit()
students=[]
class student:
  percentage=0
  def create(self):
    self.regd=input("enter the regd number:")
    self.name=input("enter the your name:")
    self.fname=input("enter the father name:")
    self.address=input("enter your address:")
    self.maths marks=int(input("enter your math's marks:"))
    self.oops_marks=int(input("enter your oops marks:"))
    self.ds_marks=int(input("enter your ds marks:"))
        self.percentage=int((self.maths_marks+self.oops_marks+self.ds_marks)/3)
    cur.execute('insert into STUDENTS2
values(?,?,?,?,?,?,?)',(self.regd,self.name,self.fname,self.address,self.maths_marks,s
elf.oops_marks,self.ds_marks,self.percentage))
    print("record created successfully")
    conn.commit
```

```
def update(self):
     print("1.regdno\n2name\n3.father
name\n4.address\n5.math_marks\n6.oops_marks\n7.ds_marks")
     ch=int(input("enter your choice:"))
    i=input("enter the regd number:")
    if ch==1:
       c=input("enter the regd number you want to change:")
       cur.execute('update students2 set regd = ? where regd = ?',(i,c))
       print("updated successfully")
     elif ch==2:
       c=input("enter the your name you want to change:")
       cur.execute('update students2 set name = ? where regd =?',(c,i))
       print("updated successfully")
     elif ch==3:
        c=input("enter the your father name you want to change:")
        cur.execute('update students2 set father name = ? where regd =?',(c,i))
        print("updated successfully")
     elif ch==4:
       c.address=input("enter the your address:")
       cur.execute('update students2 set address = ? where regd=?',(c,i))
       print("updated successfully")
     elif ch==5:
       c=int(input("enter math's marks:"))
       cur.execute('update students2 set math_marks=? where regd=?',(c,i))
       print("updated successfully")
     elif ch==6:
       c=int(input("enter oops marks you want to modify:"))
```

```
cur.execute('update students2 set oops_marks=? where regd=?',(c,i))
    print("updated successfully")
  elif ch==7:
    c=int(input("enter ds marks you want to modify:"))
    cur.execute('update students2 set ds_marks=? where regd=?',(c,i))
    print("updated successfully")
  else:
    print("wrong choice")
  if ch>4 and ch<8:
    cur.execute('select * from students2 where regd=?',(i,))
    row = cur.fetchone()
    sum=row[4]+row[5]+row[6]
    percentage=sum/3
    cur.execute('update students2 set percentage=? where regd=?',(percentage,i)
  conn.commit()
def search(self):
  c=input("enter the regd number you want to search:")
  cur.execute('select * from students2 where regd=?',(c,))
  for records in cur:
    print(records)
def delete(self):
  c=input("enter the regd number you want to delete:")
  cur.execute('delete from students2 where regd=?',(c,))
  conn.commit()
def display(self):
  cur.execute('select * from students2')
  f=cur.fetchall()
```

```
for e in f:
       print(e)
while True:
  o1=student()
  ch = int(input("1.create \ n2.update \ n3.search \ n4.delete \ n5.display"))
  if ch==1:
     o1.create()
     students.append(o1)
  elif ch==2:
     o1.update()
  elif ch==3:
     o1.search()
  elif ch==4:
     o1.delete()
  elif ch==5:
     ad=input("enter admin login:")
     if ad=="1234":
        o1.display()
  else:
     cur.close()
```

break

```
1.create
2.update
3.search
4.delete
5.display
enter your choice:1
enter the regd number:y20ait519
enter the your name:akhil
enter the father name:hari
enter your address:nellore
enter your math's marks:74
enter your oops marks:78
enter your ds marks:72 record created succesfully
1.create
2.update
3.search
4.delete
5.display
enter your choice:1
enter the regd number:y20ait516
enter the your name:jashwanth
enter the father name:madu
enter your address:vijawada
enter your math's marks:74
enter your oops marks:75 enter your ds marks:76
record created succesfully
1.create
```

```
1.create
2.update
3.search
4.delete
5.display
enter your choice:2
1.regdno
2.name
3.father name
4.address
5.math_marks
6.oops_marks
7.ds_marks
enter your choice:5
enter the regd number:y20ait519
enter math's marks:82
updated succesfully
1.create
2.update
3.search
4.delete
5.display
enter your choice:3
enter the regd number you want to search:y20ait519
('y20ait519', 'akhil', 'hari', 'nellore', 82, 78, 72, 77.33333333333333333)
1.create
2.update
3.search
4.delete
```

```
S.display
enter your choice:5
enter admin login1234
('y20ait519', 'akhil', 'hari', 'nellore', 82, 78, 72, 77.333333333333)
('y20ait516', 'jashwanth', 'madu', 'vijawada', 92, 95, 96, 94)
1.create
2.update
3.search
4.delete
5.display
enter your choice:4
enter the regd number you want to delete:y20ait516
record deleted
1.create
2.update
3.search
4.delete
5.display
enter your choice:5
enter admin login1234
('y20ait519', 'akhil', 'hari', 'nellore', 82, 78, 72, 77.333333333333)
1.create
2.update
3.search
4.delete
5.display
enter your choice:5
enter admin login1234
('y20ait519', 'akhil', 'hari', 'nellore', 82, 78, 72, 77.333333333333)
1.create
2.update
3.search
4.delete
5.display
enter your choice:6
C:\Users\91961>
```

11. Write a python program to demonstrate queue using python

Source code:

```
class queue:
     def __init__(self):
       self.ele=0
     def enqueue(self):
       self.ele=input("enter which element you want to insert:")
       l.append(self.ele)
       print("inserted sucessfully")
    def dequeue(self):
        if(len(l)==0):
            print("the queue is empty")
        else:
            print("the deleted element is:",l.pop(0))
    def display(self):
        if(len(l)==0):
             print("the queue is empty")
         else:
             for i in range(0,len(1),+1):
                print(l[i],end=' ')
obj=queue()
l=[]
print("** queue implementation in python** \n")
while True:
   print("1.enqueue\n2.dequeue\n3.display")
   ch=int(input("enter your choice:"))
   if ch==1:
     obj.enqueue()
  elif ch==2:
      obj.dequeue()
  elif ch==3:
```

OUTPUTS:

```
** queue implementation in python**

1.enqueue
2.dequeue
3.display
enter your choice:1
enter which element you want to insert:27
inserted sucessfully

do you want to continue Y/N:

y
1.enqueue
2.dequeue
3.display
enter your choice:1
enter which element you want to insert:11
inserted sucessfully

do you want to continue Y/N:

y
1.enqueue
2.dequeue
3.display
enter your choice:1
enter which element you want to insert:2030
inserted sucessfully

do you want to continue Y/N:

enter which element you want to insert:2030
inserted sucessfully

do you want to continue Y/N:
```

```
a.display
enter your choice:1
enter which element you want to insert:2030
inserted sucessfully

do you want to continue Y/N:
y
1.enqueue
2.dequeue
3.display
enter your choice:3
27 11 2030
do you want to continue Y/N:
y
1.enqueue
2.dequeue
3.display
enter your choice:2
the deleted element is: 27

do you want to continue Y/N:
y
1.enqueue
2.dequeue
3.display
enter your choice:2
the deleted element is: 27

do you want to continue Y/N:
y
1.enqueue
2.dequeue
3.display
enter your choice:3
11 2030
do you want to continue Y/N:
```

12. Write a python program to demonstrate the stack using python Source code:

```
class stack:
  def __init__(self):
     self.ele=0
  def push(self):
     self.ele=input("enter which element you want to insert:")
     l.append(self.ele)
     print("the element inserted sucessfully")
  def pop1(self):
     if(len(l)==0):
      print("the stack is empty")
     else:
      print("the deleted element is",l.pop())
  def display(self):
     if(len(1)==0):
       print("the stack is empty")
     else:
       print("the stack elements are")
       for i in range(len(1),0,-1):
          print(l[i-1])
obj=stack()
1=[]
while True:
  print("stack implementing using python")
  print("1.push\n2.pop\n3.display")
  ch=int(input("enter your choice:\n"))
  if ch==1:
     obj.push()
  elif ch==2:
     obj.pop1()
  elif ch==3:
     obj.display()
     print("invalid choice\n")
  ask=input("do you want to continue Y/N:\n")
  if ask=='n' or ask=='N':
     break
```

```
TERMINAL
stack implementing using python
1.push
2.pop
3.display
enter your choice:
the stack is empty do you want to continue Y/N:
stack implementing using python
1.push
2.pop
3.display
enter your choice:
enter which element you want to insert:27
the element inserted sucessfully
do you want to continue Y/N:
stack implementing using python
1.push
2.pop
3.display
enter your choice:
enter which element you want to insert:11
the element inserted successfully  \\
do you want to continue Y/N:
```

```
\bigcirc cmd + \lor \square \square \checkmark \times
                                      TERMINAL
enter which element you want to insert:2030 the element inserted sucessfully
do you want to continue Y/N:
stack implementing using python
1.push
2.pop
3.display
enter your choice:
the stack elements are
2030
do you want to continue Y/N:
stack implementing using python
1.push
2.pop
3.display
the deleted element is 2030
do you want to continue Y/N:
stack implementing using python
```

```
the stack elements are
2030

11
27
do you want to continue Y/N:
y
stack implementing using python
1.push
2.pop
3.display
enter your choice:
2
the deleted element is 2030
do you want to continue Y/N:
y
stack implementing using python
1.push
2.pop
3.display
enter your choice:
3
the stack elements are
11
27
do you want to continue Y/N:
n
```