Practicle 1 :

```
length=5
breadth=6
height=3
base=6
radius=4
Area_Of_Triangle=1/2*base*height
Area_Of_Rectangle=length*breadth
Area_Of_Circle=3.14*radius*radius
print('areaoftriangle=',Area_Of_Triangle);
print('areaofreactangle=',Area_Of_Rectangle);
print('areaofcircle=',Area_Of_Circle);
```

practicle 2 : program to find union of two lists

```
l1=[]
num1=int(input("enter the size of list1="))
for n in range(num1):
   number1=int(input("enter any number"))
   l1.append(number1)

l2=[]
num2=int(input("enter the size of list2="))
for n in range(num2):
   number2=int(input("enter any number"))
   l2.append(number2)

union=list(set().union(l1,l2))
print("the union of two lists:",union)
```

practicle 3 : write a program to find the intersection of two lists

```
l1=[]
num1=int(input("enter the size of list1="))
for n in range(num1):
    number1=int(input("enter any number"))
    l1.append(number1)

l2=[]
num2=int(input("enter the size of list2="))
for n in range(num2):
    number2=int(input("enter any number"))
    l2.append(number2)

set1=set(l1)
set2=set(l2)
intersect=set.intersection(set1,set2)
print("intersection of two lists=",list(intersect))
```

practicle 4: Program to remove i'th occurence of a given word in a list where words repeats.

```
list=[]
count=0
no=int(input("enter no of elements")) for
x in range(no):
   ele=input("enter elements"+str(x+1)+":")
   list.append(ele)
print("list1:",list)


list2=[]
word=input("enter word to remove")
no=int(input("enter the occurence to remove:")) for
i in list:
   if(i==word):
      count=count+1
      if(count!=no):
         list2.append(i)
   else:
      list2.append(i)
if(count==0):
   print("word not found")
else:
   print("word",word,"is repeated",count,"times")
   print("updated list:",list2)
```

Practicle 5: program to count occurence of each word in given string

```
Str=input("enter line of string")
str1=Str.split()
i=0
while i<len(str1):
    count=0
    for j in str1:
        if str1[i]==j:
            count=count+1
    print(str1[i],"present",count,"times")
    i=i+1
```

practicle 6: write a program to check if a substring is prsent in given string or not.

```
str1=input("enter String")
substr=input("enter substring")
if(str1.find(substr)==-1):
    print("substring is not present")
else:
    print("substring is present")
```

Practicle 7: Write a Program to map two lists into a dictionary

```
key=[]
value=[]
n=int(input("enter no.of elements for dictonary"))
print("for keys:")
for x in range(0,n):
    element=input("enter key"+str(x+1)+":")
    key.append(element)
print("for values:")
for x in range(0,n):
    element =input("enter value "+str(x+1)+":")
    value.append(element)

d=dict(zip(key,value))
print("the dictionary is :",d)
```

practicle 8: write a program to count frequency of words appearing in a string using a dictonary

```
s=input("enter the string")
words=[]
words=s.split()
frequency=[words.count(i)for i in words]
D=dict(zip(words,frequency))
print("dictonary items:",D)
```

Practicle 9:write a program to count frequency of words appearing in a string using a dictonary

```
import math
def list_length(mylist):
    if not mylist:
        return 0
    return 1+list_length(mylist[1::2])+list_length(mylist[2::2])
mylist=[1,2,3,4,5,6,7,8,9,10]
print("the list is:",mylist)
print("length of the list is:")
print(list_length(mylist))
```

practicle 10: write a program for read a file and capitalize the first letter of every word in the file

```
fname=input("enter file name")
with open(fname,"r") as f:
    for line in f:
        l=line.title()
        print(l)
```

Practicle 11: program to compute the diameter circumference and volume of a sphere using class

```
class sphere:
    def __init__(self,pie,radius):
        self.pie=pie
        self.radius=radius
    def diameter(self):
        d=2*self.radius
        print("diameter =",d)
    def circumference(self):
        c=2*self.pie*self.radius
        print("circumference=",c)
    def volume(self):
        v=4/3*self.pie*self.radius**3
        print("volume",v)
s1=sphere(3.14,5)
s1.diameter()
s1.circumference()
s1.volume()
```

Practicle 12 : write a program to create a table of student with two attributes name and email insert data into table and print data from the table.

```
import sqlite3

def insert_user(conn, name, email):
    cursor = conn.cursor()
    cursor.execute("INSERT INTO user (name, email) VALUES (?, ?)", (name, email))
    conn.commit()

def print_users(conn):
    cursor = conn.cursor()
    cursor.execute("SELECT * FROM
    user") rows = cursor.fetchall()
    for row in rows:
        print(row)

def main():
    conn = sqlite3.connect('example.db')
    cursor = conn.cursor()
    cursor.execute('''CREATE TABLE IF NOT EXISTS
                    user ( id INTEGER PRIMARY KEY,
                    name TEXT NOT NULL,
                    email TEXT NOT
                    NULL)''')

    while True:
        name = input("Enter user's name (type 'Done' to finish): ")
        if name.lower() == 'done':
            break
        email = input("Enter user's email: ")
        insert_user(conn, name, email)
        print("Data inserted successfully.")
```

```
    print("Users in the database:")
    print_users(conn)
    conn.close()

if __name___== "__main__":
    main()
```