

1. List ordinal value of each element of a word.

Program

```
File Edit Format Run Options Window Help
list1=['shee','lee','reshi']
print("The original list:\n"+str(list1))
res=[ord(ele) for sub in list1 for ele in sub]
print("The ascii list is:\n"+str(res))
```

Output

```
Python 3.9.0 (tags/v3.9.0:9cf6752, Oct 5 2020, 15:34:40) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/user/Documents/ordinal.py =====
The original list:
['shee', 'lee', 'reshi']
The ascii list is:
[115, 104, 101, 101, 108, 101, 101, 114, 101, 115, 104, 105]
>>>
```

2. .Create a package graphics with modules rectangle ,circle and sub-package 3Dgraphics with modules cuboid and sphere.Include methods to find area and perimeter of respective figures in each module.Write programs that finds area and perimeter of figures by different importing statements.

Program

CircleAPFunction.py - E:/Graphics/CircleAPFunction.py (3.9.1)

File Edit Format Run Options Window Help

```
#circle area
def CArea(r):
    result=3.14*r*r
    return result

#circle perimeter
def CPerimetr(r):
    result=2*3.14*r
    return result
```

```
#area of rectangle
def RArea(w,l):
    result=w*l
    return result

#perimeter of rectangle
def Rperimeter(w,l):
    result=2*(l+w)
    return result
```

```
#area of cuboid
def Acuboid(a):
    result=6*a*a
    return result

#perimeter of cuboid
def Pcuboid(l,b,h):
    result=4*(l+b+h)
    return result
|
```

 sphereAPFun.py - E:/Graphics/dgraphics/sphereAPFun.py (3.9.1)

File Edit Format Run Options Window Help

```
#area and perimeter of sphere fun
```

```
def Asphere(r):
    result=4*3.14*r*r
    return result
```

```
#perimeter fun
```

```
def Psphere(r):
    result=(4/3)*3.14*r*r*r
    return result
|
```

```
graphicsmain.py - E:/Sam/graphicsmain.py (3.9.1)
File Edit Format Run Options Window Help

from Graphics.rectangleAPFunction import*
from Graphics.CircleAPFunction import*
from Graphics.dgraphics.cuboidAPFunction import*
from Graphics.dgraphics.sphereAPFun import*

num1=int(input("enter length of rectangle"))
num2=int(input("enter breadth of rectangle"))
print("area=",RArea(num1,num2))
print("perimeter=",Rperimeter(num1,num2))

radius=int(input("enter the radius of circle"))
print("circle area",CArea(radius))
print("circle perimeter",CPerimetr(radius))

radius=int(input("enter the radius of spere"))
print("area of spere",Asphere(radius))
print("perimeter of spere",Pspere(radius))

edge=int(input("enter the edge of cuboid"))
l=int(input("enter the length of cuboid"))
b=int(input("enter the breadth of cuboid"))
h=int(input("enter the height of cuboid"))
print("area of cuboid",Acuboid(radius))
print("perimeter of cuboid",Pcuboid(l,b,h))

Activate Windows
Go to Settings to activate Windows.

Ln: 25 Col: 0
```

Output

```
IDLE Shell 3.9.1
File Edit Shell Debug Options Window Help

Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSVC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:\Users\gopik\OneDrive\Desktop\python lab exam\graphicsmain.py ==
enter length of rectangle4
enter breadth of rectangle6
area= 24
perimeter= 20
enter the radius of circle6
circle area 113.03999999999999
circle perimeter 37.66
enter the radius of spere4
area of spere 200.96
perimeter of spere 267.94666666666666
enter the edge of cuboid7
enter the length of cuboid4
enter the breadth of cuboid9
enter the height of cuboid7
area of cuboid 96
perimeter of cuboid 80
>>> |

Ln: 21 Col: 4
```