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

Program

c01.ordinalvalues.py - C:\Users\gopik\OneDrive\Desktop\python lab exam\c01.ordinalvalues.py (3.9.1)

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```
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

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) [MSC 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\c01.ordinalvalues.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 3D-graphics 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

   RectangleAPfunction.py

   SphereAPfunction.py

sphereAPFun.py - C:\Users\gopik\OneDrive\Desktop\python lab exam\graphics\dgraphics\sphereAPFun.py (3.9.1)

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```
#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
```

CuboidAPfunction.py

cuboidAPFunction.py - C:\Users\gopik\OneDrive\Desktop\python lab exam\graphics\dgraphics\cuboidAPFunction.py (3.9.1)

File Edit Format Run Options Window Help

```
#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
```

Graphicsmain.py

graphicsmain.py - C:\Users\gopik\OneDrive\Desktop\python lab exam\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",Psphere(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))
```

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) [MSC 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 37.68
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
>>>
```