Balch B Sel D First Semester MCA (2020 SCHEME) Practical Examination JUNE-JULY 2021 20MCA 131 Programming Lab

Regno: ICE20MCA-2089

Date: 02-07-2021

Time: 1:00 to 4:00

1) List ordinal value of each element of a word

Ans: Congthan, Java, Warang (deat the content waster) and the total

Ans: List: ['python', 'java', 'linux'] Print ("The original list: In", str (list)) res = [ord(ele) for sub in list for ele in sub] print ("The Ascii list is : In", str (res))

Predicted output

The original list: ['python', java', 'linux']

The Ascii list is: [112,121,116,104,111,110,106,97,97,118,105,108,110,117;

Output

The oxiginal list: ['python', 'java', linux']

The Ascii list is:

[112, 121, 116, 104, 111, 110, 106, 97, 118, 97, 108, 105, 110, 117, 120]

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 find the area and perimeter of figures by different importing statements.

4ns: graphics - circlefunction py

def circlearea (r):

area = 3.14 + r + r

return area

def circle perimeter (r):

perimeter = 2 * 3.14 * r

return perimeter

graphics - rectfunction.py

def rectavea (1,w):

area = 1+w

return area

def rectipesimeter (1,w):

perimeter = 2*(1+w)

return posimeter

graphics - agraphics - cuboid unction.py

def cuboidarea(1,w,h):

area = 2*(1*w+w*h+h*1)

return area

def cuboidperimeter (1,w,h):

perimeter = 4*(1+w+h)

return perimeter

graphics - desaphics - control function.py

def sphere area (r):

area = 4 * 3.14 * * * * * return area

areaperimetes.py

def sphereperimeter(r):

perimeter = 2 * 3.14 * return perimeter

from graphics redfunction import &

```
from graphics agraphics cuboid function import *
from graphics algraphics spherefunction impact to
length = float (input ("Enter length"))
width = float (input l'enter width"))
print (" Rectangle Area =", vectorea (length, width))
print (" Rectangle Perimeter = ", redperimeter (length, width))
radius = float (input ("Enter the radius"))
print ("circle Area=", circlearea (radius))
print ("circle perimeter=", circle perimeter (ractius))
length = float (input ("Ender length"))
width = float (input ("Enter width"))
height = float (input ("Enter height"))
Print ("cuboid area = ", cuboidarea (length, width, height))
print (" auboid perimeter=", auboidposimeter (length, width, height))
radius = float (input ("Enter radius"))
print ("sphere area = ", spherearea (radius))
print ("sphere perimeter = ", sphere perimeter (ractius))
 Predicted Output
```

Enter length = 5

Enter width = 3

Rectangle area = 15

Rectangle perimeter=16

Enter radius = 62

circle area = 60.208 12.56

circle perimeter = 12.56

Enter length = 5

Enter width = 2

Enter height = 6

cuboid area = 104
cuboid perimeter = 52

Enter radius = 7
sphere area = 615.44

Sphere perimeter = 8 43.96.

Output

Enter the length: 5

Conter the width: 2

Redangle area = 10.0

Rectangle perimeter = 14.0

Enter the vadius: 6

Circle Area = 113.0399999.

Circle perimeter = 37.68

Enter the rootions length: 10

Enter the width: 4

Enter the width: 8

Cuboid area = 304.0

cuboid perimeter = 88.0

Chter vadius: 7

Sphere Area = 615.44

Sphere perimeter = 43.96