Batch B

FIRST Semester McA (2020 Scheme) Regno: 1 CE20MCA - 2022

PRATICAL EXAMINATION JUNE-JULY Time: 1.00-4.00

2021

20MCA131 PROGRAMMING LAB

1. List ordinal value of each element of a word

2. create a package graphics with modules rectangle, cracle and sub-package 3D-graphics with modules coboid and sphere. Include methods to find area and perimeter of respective figures in each area and perimeter of respective figures in each module. write programs that finds area and module write programs that finds area and perimeter of figures by aifferent importing perimeter of figures by aifferent importing

Answed

Paggam

1.

Point ("The ordin original list: \n"+sto (list 1))

ves = [ora (ele) for sub in list 1 for ele in sub]

Point ("The ascii list is: \n"+sto (res))

Calaberrath Pirothe

Expected output

The original list: ['shee', 'lee', 'reshi'] The ascillist is: [115,104,101,101,108,101,101,114,101,115,104,105]

## 2. Paggam

Function impost math defciocle asea (8): agea = math. Pi \* 0 \* \* 2 detuan asea defcioclepeoimeteo (07: perimeter = 2\* math. Pixa detuan peaimeted defspheseasea(8): agea = 4\* math. Pi\* 8\*\* 2 aetuan agea defsphesephesimetes (s): Peaimeled = (4/3) \* math. Pi\* 8 \* \* 3 return perimeter defcuboidasea Cl. W. h?: agea = (2\*1\*w)+(2\*1\*h)+(2\*h\*w) return area defcuboidpeoimelea (1, w, h): peaimetco = 4\*(1+wth) getuøn perimeter Foom Area perimetering import\* while Toue:

```
Point (" --- MENU - -- ")
Point ("In r. ciacle")
Point ("In 2. sphese")
Point ("In 3 - cuboid")
Point ("In4. Exit")
choice = input ("Enter your choice:")
If choice = = 111;
 #1 = Int (Input (Enter your charle: ")
 of choice =
 VI = Int Conput ("Enter radius: "?)
 avea = civileavea (vi)
Print ("In Apea 13: "+ 510 (apea))
resimetes = ciaclepeoimetes (81)
 Paint ("In peaimeter is: "+sta (peaimeter))
 elif choice == '2':
  81 = Int Cinput ("Enter radius:"))
 asea = 3pheseasea(81)
 point ("In Agea 15: "+ sta (agea)
 Perimeter = sphereperimeter (01)
 Point ("In perimeter 18: "+ sto (perimeter))
 elif choice = = '3';
   11 = Int (input ("Enter length: "))
   Wi = Int Comput ("Enter width:"))
   hi = int cinput ("Ented height: "))
```

asea = cuboidasea (11, WI, hI) Point ("In Agea 13: "+ 518 (agea)) Pesimetes = cuboidpesimetes (11, Wi, hi) Point ("In Peaimeter 13: "+ 510 (peaimeter)) elifchoice == '4': quit (0) Carrest comple estada, productions else: in charge and the paint ("Invalid choice") yay estail (mual) late pe Expected output -- MENU-- ( CANTONO NOTING TO BOUND ) and - contensed (of) 1. (10cle Consider the second of the second 2. sphere 3. cuboid tempeles - cractereametea can 4. Exit (100) searces of the constant of with the Enles your choice: 1 Enter radius: 4 Area 15:50.265 peoimetco 15: 25.13 -- MENU-- La Santa Maria de la Colombia 1. ciocle de management : 3 management d'internation 2.5Phese 3. cuboid 4 · Exit Enles your choice: 2 Enles radius: 4

Apra 13:201.06

Pealmeles 13: 268.08

-- MENU - -

- 1. ciacle
- 2. sphese
- 3. Chboid
- 4. Exit

Enter your choice: 3

Enles length: 4

Enter width: 3 sed tomps and transfer and

éntes height: 2

Avea 13:52

peaimeter 13:36

- - MENU - -

- 1.618cle
- 2. Sphese 1: monoci) thousands
- 3. cuboid
- 4 · Exit

Enter your choice: 4

Obtained optput (paggam -1)

Out Put-1

The obiginal list: ['shee', 'lee', 'deshi'] The ascii list is:

Susing mains a

15 2d 15 2,00 dog ?

Charles Indiana

2 DEON 3003 8211 . 29012

elements in sub

mat ornin

10113 110015

[115,104,101,101,108,101,101,114,101,115,104,1057

output-2

The original list:

['abi', 'jio', 'sam']

The asc11 list 13:

[97, 98, 105, 106, 105, 111, 114, 97, 109]

Algorithm

step1: staot

Step 2: List some woods

step 3: Foint the obiginal list

step4: ordinal elements for sub in list I for

elements in sub

steps: point the ascil list

step6: stop

obtained output (program 2)

1- ciocle

2. authorid sphere

3- ByRHERAR CUboid

4. Quit

enter choice: 1

enter radius: 4

avea 13:50.126548245743669

perimeter 13: 25. 132741228718345

- MENU

363442 0

Andre &

1 . 17.

2. Sphese

3. cubord

4. Quit

enter choice: 2

entes sadius: 4

agea 15: 804.24771

Peoimeted 13: 268.08257

1. (10cle

2. sphese

3. cuboid

4. Quil

enter choice: 3

enter length: 4

enter width: 3

ented height: 2

avea 13:52

peoimeles 15:36

1. Ciacle

2. Sphere

3-caboid

4. Quit

enter your choice: 4