- DExceptions are nothing but errors when the code written cannot handle the conditions the exceptions arises.
- a) Zero Division Error:

CODE:

try:

15/0

except Zero Division Error as Zd:

print (zd)

#OUTPUT!

division by Zero.

b) Index out of range exception

CODE !

1= 10,20 tory:

[65]

except IndexEstoror as IE:

print CIE)

#OUTPUT:

tuple index out of range.

c) Invalid datatyre;

tay:

inp = int (input ("Enter a number:")

Texcept Value From as VE: print (UE)

OUTPUT :

Enter a Number: Asjun

Invalid literal for int () with base 10!

'Arijun'.

2) Class Triangle:

def_init_ (set, length, width):

self-length = length

Albin = Albin Has

det Parimeter (self):

return (self-length + self-width)

det Anea (self):

return 0.5 * self. length * relf-width

def display (self):

print ("The height of the triangle is"

print ("The periwidth of the triangle is:

self. perimeter ())

print ("The over of the triangle is".

self. Anea ())

Class Cuboid (Tailangle):

det_init_ (self, length, width, height):

Triungle .- ivit - (reff, width, height)

self. height = height

det Volume (self): return self length * self-width * self-height

Tail Class = Tailongle (12,8) This Class display() print (" In") Cub Class = Cuboid (12, 8,4) print ("The volume of Cuboid is: " Cub Class tolumes)

The height of the triangle is: 12 The width of the triangle is: 8 The perimeter of the triangle is 20 over of the triangle is: 48.0

The Volume of Cuboid is! 128

e) import te

try.

file = open ("one. +x+")

tor data in file:

data = data - strip()

emails - found - tre findall

("[0-9a-z A-]) +[5-Az-p-0]")

+1. Fo-9a-2 A-2]+", line)

print (emails)

File Not Found Error as e: Driht (e)

3)

a) # & Importing Packages

import the

text = "The following example creates an Attray List with a capacity of 50 dements. Four elements are then added to the Attray List and Array List is trimmed Accordingly"

Thear-words = the findal (th' 16 [c Ce E] list,

print (new-words)

[example', creates' capacity' elements',

c e mexis

b) import ne

text = "I am studying above security"

paint (sie. Sub ('cyber', 'cy:, text))

OUTPUT:

I am studying Cy. recurity

c) Impo

import the

text = Hello everyone, this to an example words = se. findall (n'Ibelstelb', text) Daint (words)

OUTPUT -

[example evergone, example]

D) import the

def pluvalinge (noun):

if he rearch ('[p] 5', Noun):

neturn re. sub ('\$', 's', noun)

val = "cap" print (val, "-" pluraline (val))

OUTPUT -

Cap - Cops.