OBJECTIVES What is the primary purpose of dauser and espectives in The primary purpose of dauses and bjects in Rython.
in to organise Code into remable code Which Keyword is used to maplement when tance in Python which of the following interments about a Nariable scope in Python in true.

**And D

The Answer to question 3 would be A and D. What is the Purpose of formatting strings in Potton.

C. To replace place holder with Normable Values What is the main purpose of using the try-except in gracefully. They hardle errors and £ xceptions Success has a simple formular do your leest, and people may like it.

2
CORE GUENTIONS
Troite a petion I read Retiral
allowed the state of the state
and width and me rod
area crain return the area of the voctorale
Cython Code:
Thirte a pethon clash named 'Rectangle' with attributes lange and width and a method area (7 and returns the area of the roctangle. Class Rectangle:
This clave, represent a rectargle with attributes length and with
length and width
Last 2-init - (self lands with)
Initializa a color of the the
def 2-init - (selt length width) : # Initialize a rectangle object with the given length
self. length = length
solf light = length
self. Width = withth
oef area (self)
It Calculate and refunctho area of the nor tambo
Calculate and refund the area of the rectargle H Returns the area of the rectangle (long xwidty). Treturn Self. length x 116 blitts
traction solf long twicks.
return Self. length x relt. Whith
£ Xample usage
my-cortangle R. + 1 (4)
The Tectard E (3.3)
my-reotangle = Rectangle (5,3) area = my-rectangle.area ()
- Critical Control of the Control of
part (f ! The area of the rectargle is : {area}
The restance of a sale of
the second secon

Define a classificance that a hands innerthe Rectangle class Seturida que a chand for primeter () to Calculate the process of the iguale . Python Code # This class represents a rectangle with attributer length and width. def __init (self, length, wichth); If initializes a given rectangle object with the Selfolength = length Solf. with = wiath et area (self): # Calculater and returns the area. # Returns the area of the rectargle (LXW) return sef. longth x solf. width class square (Rectangle) # This class represents a square which is a special type of rectangle with equal violes. det -- init--(self, side length)

Initializes a square object with a

gluon side length.

side length -> The length of side of

square H Calle the parent Constructor with same side longth to has aboth relength and substemay like it.

def parimeter (self):

Calculates and retain the painter of the grown (HX vide-langth)

return 4 X velf langth # since langth and as thence Gotting wer input Forthe squale. hito True ? ride-length = Host (input (Extentlue side length of)) If side-angle 70: print (66 The side anoth must be a positive number?) except Value Firms

print ("Invalid input: Please enter a number only") # Cleare a square object. my_squale = Square (side_erath # Calculate and print the squere are and the parimeter. area = my-square. area (perimeter = my=quare ponmeter ()
print (f "6 The area of the oquare is & & area ? 3) print of The perimeter of the square is a Experimeter 8 White a Pothon Euretim Calculate Age () that take or the year of first an animput and return the age, flandle any potential enous essues the try except block - calculate (birth-year)? # Calculater and returns the age based on the given birth year.

H. Returns the owner t age of the power on Courrent - Birth Valuetinor-> If the ordered value is not a # Raiver: valid interper try. # Get Current year Current-year = date. today(). year.

age = Current-year-birth-year If age 10: raise Value timor (66 Invalid birth yours retourn age except voluction of e ? 22 return XPone. get the user right! ile Trub; birth year = inf (input (66 Enter year of Lirth of) except Value Error & H Calculate and duply age.

age = Calculate Age (bjoth-year) If age is not None:

print (fil Your age is : fage }

Delinte a Python Program that prompt the we to Enter their name and age then prints a greating message along with their age. that get-positive_interger (prompt)
H Prompt o the wer for a positive interger and Validate. Returns a possitive integer returned by the over Value = int (input (prompt)

If Value > 0:

return Value print ("Please Entor a positive interger") over belief of healt of input please enter a number only?

H Getting user input (Enter your name?)

name = input (Enter your name?) # Get user age (positive integer)

age = get_positive_integer (66 Enter your oger)

Yell H Hello frame to nice to mast someone who

Success has a simple formula; do your best, and people may like it.

Define a Function divide Mambor O, that take, too dividing the fixet number by the record number. Handle the ZavaDivision forcer asing the try - except block. let divide Number (print) # This function divides two numbers and ZeroDivision forms. handles the Roturns · The result of dividing num ! by num 2 or a marage if there is a ZenoDivision Error retain num 1 / num 2. except Zero Pinision Error: Return 66 Somy you can't divide by Zero. H Example usage Thile Thee num 1 = float (input (Enforthe first number : 32))

num 2 = float (input (66 Entorthe Geord number : 3) print (66 please enter Kalid number, 3) = divide Number (num 1 num 2 You may delay, but time will not. PICFARE

. ,