1) Lambda Functions in Python: -> Lambda Functions in Python are anonymous Functions, implying they don't have be used to create a typical function in ) We can sho use the Lambola keyword to define an unnamed function in Python. Synton: -Camboda arguments: expression -) This Function occepts any lounts of inputs but only evaluates and returns only one ocepassion. -) Simply means it takes many inputs but gutturns only one output. -> Lambda functions con be used whenever function coyuments are neassay -) In addition to other forms of formulation in functions, it has a vocailty of applications in lectain lading domains available.

-) It is very important to remember that according to Syntax, lambda functions are limited to a single statement.

Example:

1 Source code:

# code to demonstrate low to use Dombdo Fn.

add = Dombda num: num+4

Print (add (6))

· output:

10.

II. Source Code!

a = lombolu x,y: (x+y)

Print (a (5,6))

. output:

III Source Code:

dif add (num):

geturn num + 5

Print (odd (6))

· output:

2) Modules in Python:

-> Module is a file that contains lade to perform specific took. A module may contain variables, functions, clanes and etc.

As our program grows bigger, it may contain many lines of Codes. Instead of putting everything into a single file, we can use modules to separate codes in separate files.

This mother our lode organized and losier to maintain which is done by the pythen Modules.

· Steps to Create a Module:

-> Let us breate a Module to add two numbers and save it as "example .py".

=> # Python Module

def add (a,b):

susult = a+b

seturn sierult

"add()" inside a Module named "enumple"

The function tokes in two Moriables

(a 2 h) and return their Rum.

· Import Python Module's:-

-> we can import the definitions inside a module to sanother module (00) the interactive interpreter.

-> we use the "import" keyword to do this.

for egg. No we are going to import the already defined Module "example. Py" using following prompt.

=> import example.

· Accessing Python Module:-

-> we use dot (.) operator to occurs the python Modul.

=) ie: addition.add (4,5) outpute: a.

· Cg code to Return Pi volue!

=> Source ade:

import moth

Print (" Pi value is: ", moth.pi)

=> output:

Pi value is: 3.141592653589793.

Jusing Noth module in Python we son early solculate many motheristical solculations in Python using the mother module.

-> Mathematical valculation may occasionally be sequired when dealing with specific fixed (or) seignous tasks.

-) The function in moth module con perform simple mothernatical calculations like addition(+) and subtraction(-) and advanced trigonometric and logarithmic operations

-> Modules in Python are generally imported to the code using the keyword "import".

A python has a built-in moth module which is a standard module by we do not need to install than seperately.

module is in 'C' longuage, it provides our to the functionalities of underlying 'C' D. Baraay.

-> Below are some bosic examples to understand about the moth moduler function in Python.

# Python Module Examples: I Importing math module to find Square root: import math Pount (moth. Sqrt (9)) · out put : 3.0 I Importing moth module to find the fortariol of a number: import moth n= int (input()) Point (" Enter a Number : ",n) Print (moth.foctorid (n)) · output: Enter o- Number: 5 120. III Importing module to find pi value import moth point (moth pi ())

· Out put !

3.141592653589793.

4.) Python: Time Module:-

Junction for handling or performing time guelated tasks.

-> The Time related tasks include.,

\* Reading Current Time.

\* Formatting Time.

\* Sleeping for specified no. of Sec's and so on.

· Python time. time() function:

-> The time() function sectusms the number of Seconds possed since epoch.

eg: import time

Secondi = time. time()

Print (" Seci Since Epoch = ", Seconds)

\* Output: Sec's Since Epoch = 1672219379.5045543

· Python time · ctime () Function:

Possed Since epoch as an argument and represents load time.

Bg: import time Seconds = 1672215379.5045543 loual\_time = time.ctime (Seconds) Print ("Low Time:", low \_ time)

\* Output:

Low Time: Wed Dec 28 08:16:19 2022

Pothon time. Sleep () Function:

-> Sleep() function delays the execution of the current thoread for the given number of Seconds.

eg: import time Print ( " pointed Immediately!")

time. Sleep (2.4)

Pount (" printed After 2.4 Seconds!")

\* output: printed Immediately! Printed After 2.4 Seconds!

-> These are some time() functions in the Time Python Module

-) So these module function are usually used to landle and perform the time grelation touter.

-> There are other time() functions in the Time Module like time. localtime(), time. gritime (), time. mktime () and etc available in Python.

5.) Python: Relp() Function:

-> the Delp() Method (or) Function in Python is used for interactive useses -> It is grecommended to tony it in your interpreter when you need lelp to Python program.

-> The Delp () function in python is also used to write python Modules.

Syntox:-

The Synton of Delp() in; Delp (object)

help() Parameters:

-> The Delp() function takes a mosainum of only one prosameter.

-) object is optional - you want to generate the Delp of the given 'object'.

\* Note :-

The object is only possed in the Deep () method and it is not a String.

Try These in Python Shell: >>> Delp (lest) >>> Delp (dict) sss Delp ( point) >>> Deep ([1,2,3]) >>> Delp ( grandom thing ) >>> Delp ('deb') >>> Delp () >>> from moth import \* Delp ('noth. pow') we can also write (or) enter the name of the topic in Shell to get Delp on writing Programs and using Python Modules. eg: Delp > Tome Delp > 'pount' Delp > pount. -> To quit the help utility and geturn to the interpreter, you need to type 'quit' and Press enter Delp > quit. -> These are some functionalities and uses of the Deep() function that is

available in python.