Task-3: Importing python modules and packages in pythol programming Aims TO write python demostrating importing Python modules and packages. you are tasked with developing a modular calculation application in python. The calculator should support basic arithematic operations, additions subtaction, multiplication, and division. Each Operation should be implemented in separate module. Additionally, you should create a main program to handle user input, call the appropriate module, a display the result. Algorithm: 1. Define functions for addition, subraction, Multiplication, e division. 2. Handle division by the by raising an error if the divisor is ten 3. Import the module (my mosts) containg these function. 4. Initialité two number (a=10,6=5). 5. call each function using mymathe function - name > (a,b) 6. print the result of all operations. program: def add (a,b): return atto def subtract (a,b): ietum a-b def multiply (a,b): return axb

def divide (a,b): varish value trov ("cannot divide by Fero") raise value Error ("cannot divide by Fero") return all import mymath a= 10 Print ("Addition: (mymath. add (a, b)) print ("Subraction:", mymath. Subtract (a,b)) print ("Multiplication:", my math: Multiply (9,6)) print ("Division:", my math. divide (a, b)) working on a python project that you are requires you to perform various mathematical operations and geometric are calculations. Algorithm -1. create mathfunctions. Pymodule: 2. create area functions. Pymodule: 3. Create-init-. Py files in pack 1 and pack 2: 4. Create main. Py: 5. print the output as expected. program: 1. create the mathfunctions. Py module def add (a,b); return att def subtract (a16): veturn and def multiply (a,b): return axb def divide (a,b): it b==0; return " From! Division by Fero?" return a/L

Output:

Addition: 15 Subtraction: 5 Multiplication: 50

Division: 2.0

out put: Addition: 15 subtraction; 5 multiplication: 50 Division: 2.0 CIVIL Area (radius =7): 153.93804002589985 Rectangle Area (5×10); SD Triangle Area (base=6, height=8): 24.0

create the area functions. Py module import math det (i'rele - area (radius): return math. Pi & radius * radius det rectangle _ area (length, width): return rength or width. det triangle - area (base, height): return 0.5 * base * height. 3. Create - init _ . py in each package folder (pack 1 and pack 2) from morth functions import add, subtract, multiply, divide trom. area functions import circle_area, rectangle_ area, triangle - area. 4. create the main py file from pack import math functions. from pack import area tunctions. Print ("Addition;" mathfunctions. add (10,5)) print ("subtraction:"," mathfunctions. Subtract (10,5)) print ("Multiplication: ", mathfunctions. Multiply (10,5)) print ("Division:", mathfunctions. divide (10,5)) print ("circle Area (radius)=7):", a reafunctions circle print ("Rectangle Area (5×10):" cirea functions. rectangle Print ("Triangle Area (base = 6, height = 8): "One a functions. triangle - area (6,8)) Result: Thus, the program for importing python modules and packages werno successfully executed and the output PENFORMANCE (5) RESULT AND ANALYSIS (3) THE VIVA VOCE (3) RECORD (4) TOTAL (15)