Task3: Importing python modules and packages in python programming

(a) Digital clock Display using Built-in module

Aim: To write a program to show the current

system time un a user friendly tomat

un idesktop widget.

# Algorithm :

- 1. Start the program
- 2. Amport the built in time module
- 3. use time. strytime () to get the current time in the desired format: HH: MM: SS AM/PM.
- 4. Display the formatted time to the user.
- 5. End the program.

## program :-

import time

Current\_time = time. Strttime ("%I:%M:%s:%p,
print ("current Time:", current\_time)

output: (" off verified successfully ") : tuqtuo

Current time: 11:55:18:AM

- experimpte and off 1 = cornect of in prominum attempts exceeded. OTP verification

failed ")

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istant of anserial worther sings or inches of dillocal afterdate and looping statements dotte successfully.

Task-3b: Custom Geometry Module for Area colculation

Aim: Write a python program to create a custom module named geometry. py with function area - circle (radius) and area - rectangle (length width) and demonstrate use of both function.

### Algorithm =

- 1-Start
- 2. Create a module named geometry-py
  - · Define function area circle (radius) → return 11x radius²
  - Define function area\_rectangle (length, width) → returns length x width
  - 3. Create a main program tile.
  - 4. Import the geometry module
  - 5. Read raduis from uses
  - 6. Read length and width from user
  - I. call area Circle (radius) and display result.
  - 8. Call area rectangle (length, width) and display
  - 9. Stop

#### Program :

umport geometry

r = float (input/("Enter radius of circle:"))

l = float (input ("Enter length of rectangle:"))

W = float (input ("Enter width of rectargle:"))

circle\_area = geometry. area - circle (r)

rect\_area = geometry. area\_rectangle (l, w)

print (f"Area of circle = {circle\_area:.2+3")

print (f" Area of rectangle = {rect - area: . 2+3")

output in both substance waster control in Emancialist with in Area of wich = 78. 53981 Enter length of rectarigle: 10 Enter width of rectangle: 4 Area of rectangle = 40 : arguin stood the program propose the heith - is - this module The time - study hime () of get the course time in the desiret formal : HH: MH: 55 holon. Display the formatted this to the lises. ind the pregram. post time (ago. sol, end : Igo a) suighteds and = suit - qua to ( religion Time: 2 g current time)

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Task-3c Package for Temperature Conversion
```

Aim: Ho write a python program to create a package called temperature with a module convert. py that winclude function to fabruenhist (celsius) Algorithm:

and to Celsius (tahrenheit).

1. Start

2. Create a package named temperature

3. Inside the package, create a module file convert, py

• Define function cellius – to – fabrierheit (c)  $\rightarrow$  return (cx 9/5) +32

• Define function fabrienheit \_ to \_ Celsius (+)  $\rightarrow$  return (+-32)×5/9

4. Create a main program

5. Amport the Convert module from the temperative package.

6. Annut temperature in celsius.

7. call celsius - to - fahrenheit (c) and display result

8. Imput temperature in Fahrenheit

9. call fahrenheit - to - Celsius (+) and display result

10. Stop

#### Program:

des celsius to fahrenheit (c): return (c\*915) + 32

des fahrenheit \_ to \_ Celsius (t): retwin (t/- 32) \* 5/9

C = float (input ("Enter temperature in Celsius:")) f = float (input ("Enter temperature in Fahrenheit:")) to = f = Celsius = to = fahrenheit(c)

to -c = fahrenheit - to - celsius(f)print  $(f'' \{c3^{\circ}c = \{t0 - f: af3^{\circ}F'')\}$ print  $(f'' \{f\}^{\circ}F = \{t0 - c: af3^{\circ}c'')\}$ 

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EX No.	3	
PERFORMANCE (5)	5	
RESULT AND ANALYSIS (3)	5	
VIVA VOCE (3)	5	
RECORD (4)	50	
TOTAL (15)	1/15	
SIGN WITH DATE		

Clesult: Thus Python program for importing

1 Python modules and package

un python programming is verified

and executed.

theston (deametry morning for dress Enter temperature in Celsius: 37 Enter temperature in Fahrenheit: 98=6. Muste (2004ms) and wone - sertemble (in (4.1) conde demonestrates et 2009, 89,0=20,00. F. Esperi 98.6°F = 37.00°C to a module menter grantay py The function were - chale (nodius) - + when we reading Juic Junction couses - retaingle (length with) reale a main program tipe mpost the geometry module each radicis from 115001 iai lingth and welth form were tall corea - center (raduis) and display result lass corca - rectangle (lungth, width) and display = / Earle (instructed for Earlest sandring of circle; ")) short downstans Liour ( rentres headin & sectionide : ...) ( "Enter ("Enter words of section of section of a Onto a condition of the condition - distille (1) and one democratic one sectionale (1,10) int ( funco of circle - (circle - asses : 0+3")