OUTPUT:-

Thursday, 07 August 2025, 04:03 PM

Date:- 06-08-2025

Task3: Importing Python modules and packages in python programming.

a) Weather Report using datetime

Aim: To create a python program for weather report by using date time.

Program:-

Weather.py

```
from datetime import datetime
now = datetime.now()
formatted =
now.strftime("Wednesday, %d %B %Y, %I:%M %p")
print("Weather Report Time:",formatted)
```

Algorithm:-

- Start
- Import the date time module.
- Format the data and time using strftime() method with the required format.
- Display the formatted data and time.

Result:- We successfully created a python program for weather report by using date time.

b) OUTPUT:

Factorial 0 + 5 : 120

Is 29 prime : True

b) Create and Use your own ~~Mobi~~ Module

Aim:- To create a module.py with : factorial(n), Is prime(n), Import this module and use both functions on a main program.

Algorithm :

1. Create mymath.py :
   - Define a factorial(n) function that calculates the factorial of n.
   - Define an is_prime(n) function that checks if n is a prime number.
2. Create main_program.py :
   - Import the mymath module.
   - Call mymath.factorial() and mymath.is_prime() with example number.
   - Print the results

Program :

```
def factorial(n):
    if n == 0 or n == 1:
        return 1
    return n * factorial(n-1)

def is_prime(n):
    if n < 2:
        return False
    for i in range(2, int(n**0.5) + 1):
        if n % i == 0:
            return False
    return True
```

```
import mymath
print ("Factorial of 5:",
mymath.factorial (5))
print ("Is 17 prime?",
mymath.is_prime (17))
```

c) ~~taxonomy~~

Result:- We successfully created a module.py with: factorial(n); is_prime(n), imported this module and use both functions in a main program

Output:

1000 INR = 12.00 USD

c) Currency converter using a custom Package

Aim:- To create a package currency with a module converter having a function convert.

Algorithm:-

1) Start
2) Inside PC, create → init - py (empty) and converter py.
3) In converter py, define
   convert (amount, rate):
   - multiply amount by rate.
   - Return converted value.
4) Convert INR amount.

Program:

currency / converter.py:

```
def convert (amount, rate):
    return amount * rate
```

Main Program

```
from currency import converter
inr_amount = 1000
usd_amount = 0.012
usd_amount = converter.convert(inr_amount, usd_rate)
print(f"{inr_amount} INR is equal to {usd_amount:.2f}")
```

VEL TECH - CSE	
EX NO.	3
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	

17/9/25

Result:- Currency converter using a Counter package is created & executed successfully.

17/9/25