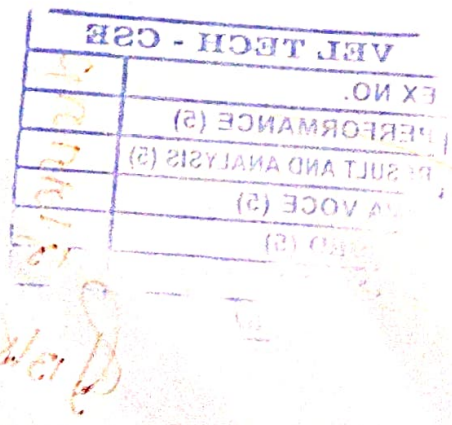
3.	06/08/25	Importing python modules and packages in python programming.	15	13/8/25

Sample Output:-

Current Date & Time: Wednesday, 06 August 2025, 07:30 pm



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Task-3: Importing Python Modules And Packages In Python Programming

a. Weather Report Using datetime :-

Aim:

To display the current date and time in the specified format using the datetime module.

Algorithm:-

1. Import the datetime module.
2. Get the current date and time using datetime.now().
3. Format the date and time using strftime() to match the required format:
   "Day, DD Month YYYY, HH:MM AM/PM"
4. Display the formatted date and time.

Program:-

```
#weather_report.py
import datetime
#step 2: Get current date and time
now = datetime.datetime.now()
#step 3: Format
formatted = now.strftime("%A, %d, %B, %Y, %I:%M %p")
#step 4: Display
print("Current Date & Time:", formatted)
```

Result:-

Successfully displayed the current date and time in the specified format using the datetime module.

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b. Create and Use Your Own Module

Aim:-

To create a custom math module with factorial() and is-prime() functions, and use them in a main program.

Algorithm:-

1. Create a file mymath_py.
2. In mymath.py, define:
   - factorial(n) → calculates factorial of n.
   - is-prime(n) → checks if n is a prime number.
3. Create a main program to import and use mymath functions.
4. Display the results.

Program:-

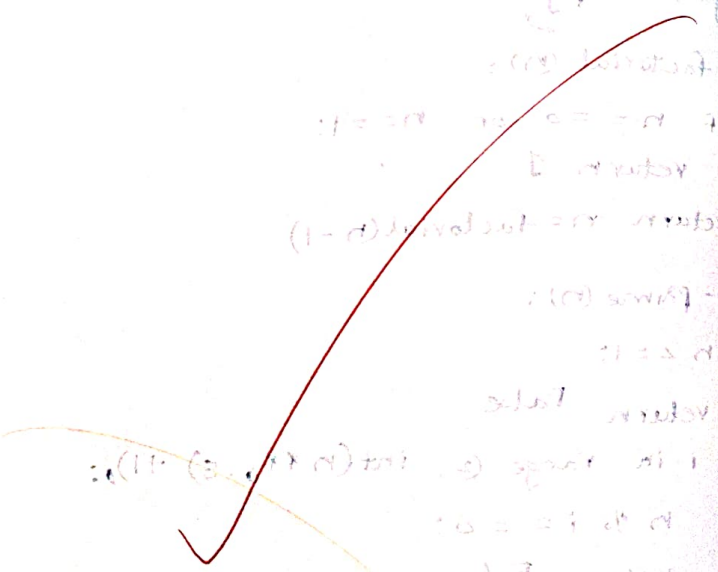
```
# mymath.py
def factorial(n):
    if n == 0 or n == 1:
        return 1
    return n = factorial(n-1)
def is-prime(n):
    if n <= 1:
        return False
    for i in range(2, int(n**0.5)+1):
        if n % i == 0:
            return False
    return True

#main.py
import mymath
num = 5
print(f "Factorial of{num}:", mymath.factorial(num))
check_num = 11
print(f "Is {check-num} Prime ?:", mymath.is-prime(check-num))
```

Sample Output:-

Factorial of 5: 120

Is 11 prime? : True

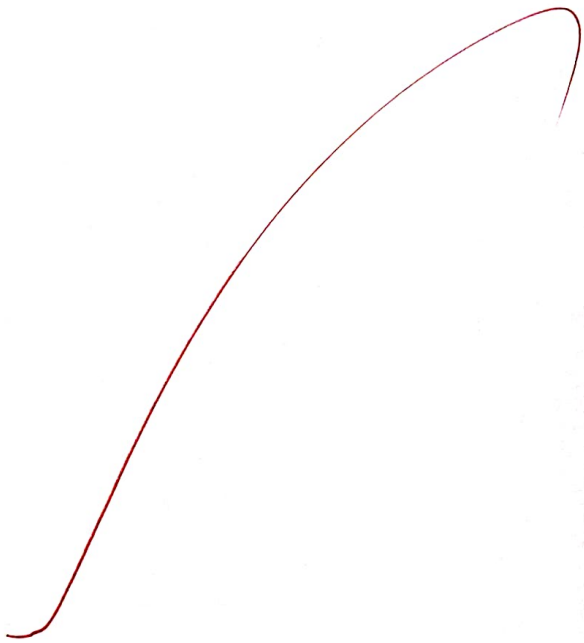


Result :-

Created a custom module mymath.py and successfully used it's functions in a main program.

Sample Output:-

1000 INR = 12.00 USD



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C. Currency Converter Using A Custom Package

Aim:-

To create a custom package for currency conversion and use it to convert INR to USD.

Algorithm:-

1. Create a folder currency
2. Inside currency, create:
   - `__init__.py` (empty file to make it a package)
   - `converter.py` containing a `convert(amount, rate)` function.
3. Create a main program to import and use currency.converter.
4. Display the converted currency value.

Program:-

```
# currency/converter.py
def convert(amount, rate):
    return amount * rate
```

`main.py`

```
# main.py
from currency import converter
amount_in_inr = 1000
rate_inr_to_usd = 0.012   #Example rate

amount_in_usd = converter.convert(amount_in_inr, rate_inr_to_usd)
print(f"{amount_in_inr} INR = {amount_in_usd:.2f} USD")
```

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EX NO.	3
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20

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Result:-

Successfully created a custom package for currency conversion and converted INR to USD.