06/05/25

Task 3:- Importing python modules and packages in python Programming.

(a) Weather Report using datetime:-

Aim:-

To display the current date and time in a specific 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 as: Day, DD Month YYYY, HH:MM AM/PM.
4. Print the formatted output.

Program:-

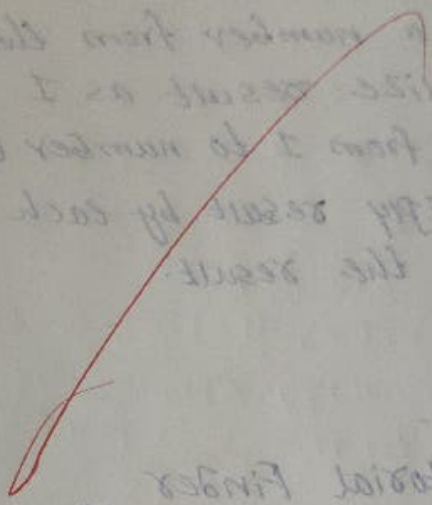
```
# Weather Report using datetime from datetime
  Import datetime
  now = datetime.now()
  formatted = now.strftime("%A, %d %B %Y,
      %I:%M %p")
  print("Current Date & Time:", formatted)
```

Result:-

The Program successfully displays the current Date and time in the desired format.

Output:-

Current Date & Time : Monday, 11 August 2025, 02:45PM.



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Task 3:- Import
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6/8/25 (6) Create and use your own module

Aim:-

To create a custom module with reusable math functions and import it into a main program.

Algorithm:-

1. Create a file mymath.py.
2. Define factorial(n) and is_prime(n) functions inside it.
3. In the main file, import mymath.
4. Call both functions and display results.

Module: mymath.py

~~Pytho~~ Program:-

```
# mymath.py
def factorial(n):
    result = 1
    for i in range(1, n+1):
        result *= i
    return result
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
```

Output:-

Factorial of 5: 120

Is 7 Prime? True

Main Program:-

```
# main.py
import mymath

num = 5
Printf (f "Factorial of {num}:", mymath.factorial
(num))
check_num=7
Print (f"Is {check_num} Prime?", mymath.is_
Prime (check_num))
```

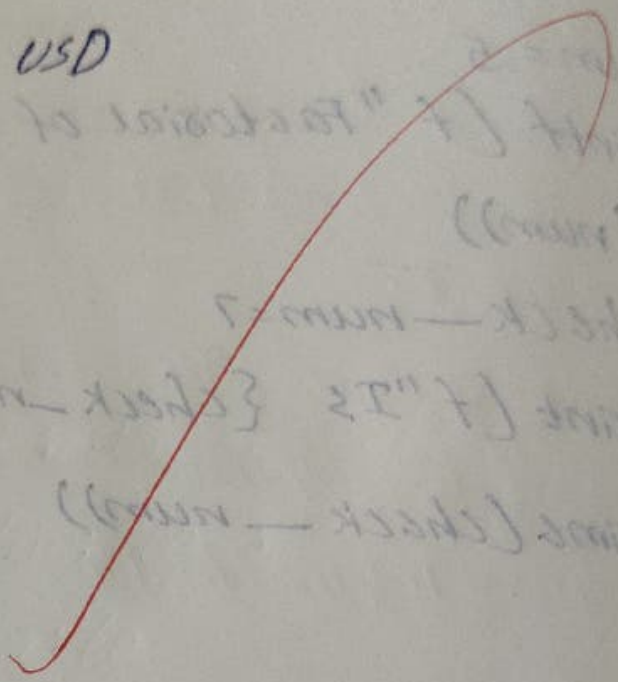
Result:-

The custom module was created and reused successfully.

Output:-

Enter amount in INR: 1000

1000.0 INR = 12.00 USD



6/8/25

(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 named currency.
2. Inside it, create __init__.py (empty) and converter.py.
3. Define convert(amount, rate) in converter.py.
4. Import the module in the main program.
5. Take INR amount, convert to USD using a given rate.

Package structure:-

```
currency/
  __init__.py
  converter.py
```

Module: converter.py :-

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

Main Program:-

```
# main.py
from currency import converter
inr_amount = float(input("Enter amount in INR:"))
usd_rate = 0.012 # Example rate.
usd_amount = converter.convert(inr_amount, usd_rate)
print(f"{inr_amount} INR = {usd_amount:.2f} USD")
```

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PERFORMANCE (5)	3
RESULT AND ANALYSIS (5)	5
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TOTAL (20)	18
SIGN WITH DATE	

Result:- The Package works correctly to convert currency from INR to USD.