

Date: 01/08/2025

Ques:- writing python modules and packages in other programming

Ans:- weather report using datetime.

Program:- write a python program that displays the current date and time along with weather info in the format, Wednesday, 06 August 2025, 07:30 PM

Algorithm:-

1) Start the Program

2) Import the datetime module.

3) Get the current date and time using datetime.now()

4) Format the date and time using strftime.

5) Display the formatted result

6) End the Program.

Program:-

```
from datetime import datetime
```

```
now = datetime.now()
```

```
formatted_time = now.strftime("%A, %d %B, %Y, %I:%M %P")
```

```
print("Current Date and Time:", formatted_time)
```





Result the program successfully imported  
the date time module and displayed  
the current date and time in the  
reversed format.

b) create and use your own module

Aim:- to create a custom module with math functions and use them in the main program.

Algorithm:-

1. create a python file named mymath.py
  2. Define two function inside it factorial (n) and is - prime (n).
  3. create a main program to import mymath and use both functions.
  4. Display the results
- end the program.

module: 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(sqrt(n)) + 1):  
    if n % i == 0:  
        return False  
    return True
```

Program:-

import mymath

Print('Factorial of 5:', mymath.factorial(5))

Print('Is 12 prime?', mymath.is\_prime(12))

Result - The custom module mymath  
was created and successfully  
used in the main program.



c. currency converter using a custom package.

Aim:- to create a package with a module to convert currency from INR to USD.

Algorithm:-

1. create a package folder named currency.
2. Inside it, create a file converter.py
3. Define a function convert (amount rate) in it.
4. In the main program, import the module and use the function.
5. Display the result.
6. End the program.

module:- converter.py

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

Program:-

```
from currency import converter  
inr - amount = 1000  
usd - rate = 0.012
```

output -

US\$ 120

to convert

to convert

to convert

to convert

to convert

to convert

to convert

to convert

to convert

to convert

to convert

to convert

to convert

to convert



used - amount & converted convert (ins - amount)  
used - date)

print('I use to use :- , used - amount')

VEL TECH - CSE	
EX NO.	3
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	2
TOTAL (20)	20
SIGN WITH DATE	13/6

Results the 1/2 uniform Package and  
module were successfully used to  
convert for to use.