

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

15

~~4/3/18/12~~

student will calculate their average weight for each of
the four days and enter it into the student's record.

Sample Output:-

Current Date & Time: Wednesday, 06 August 2025,

Day 3 Please weight yourself today at 1:00 pm
and write down your weight.

yourself weight is

kg

AER TECH - CSB	
EX NO.	
PERFORMANCE (2)	
RESULTS AND ANSWERS (2)	
AQCC (2)	
WDO (2)	

Set the student's weight for the day and calculate the average weight for the week.

6/8/25

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

a. Weather Report Using datetime :-

Aim:-

To display the current date and time in 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.

b. Create and Use Your Own Module

1/8/25

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.
Output for mymath.py
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))
```

3. Implement Miller-Rabin algorithm as class
as an object and find probability of prime

Implementation will be done
with help of random number generator
to prevent collaboration & to prevent
random testing or it is update to switch to
normal base for simplicity at overlapping section to stats
method

Sample Output:

Factorial of 5: 120

Is 11 prime?: True

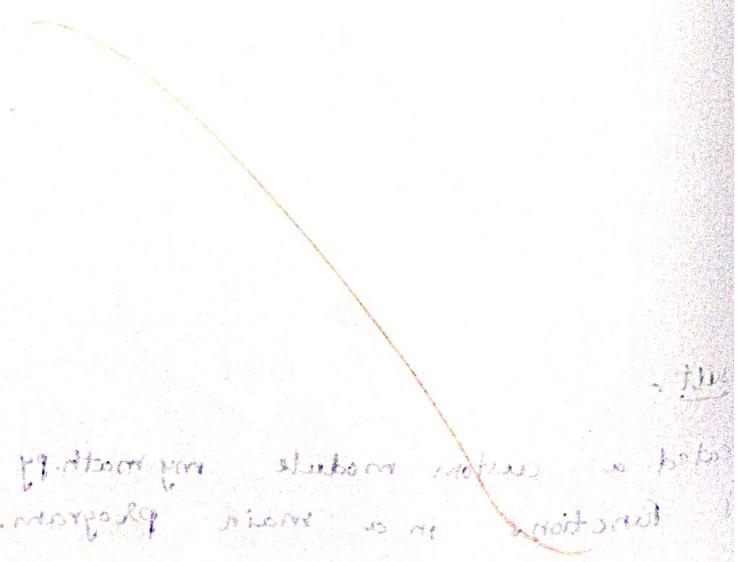
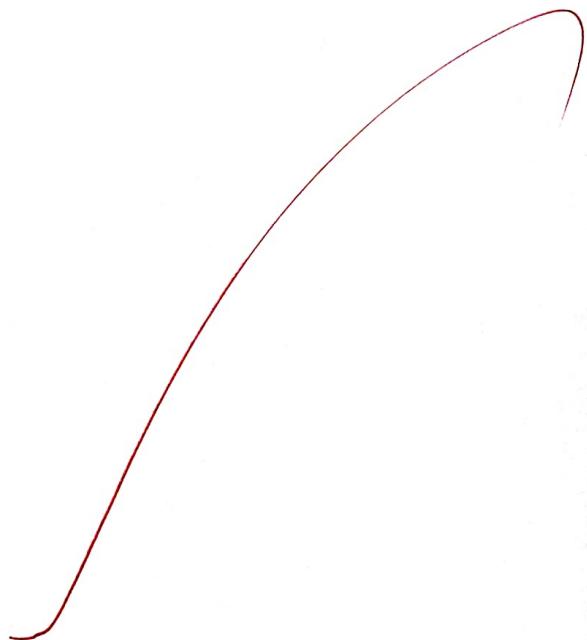
QUESTION :- Create a custom module mymath.py and successfully used its functions in a main program.

Result :-

Created a custom module mymath.py and successfully used its functions in a main program.

Sample Output:

1000 INR = 12.00 USD



Ques. What would be the output if there were no bank charges where is no withdrawal
charge

6990 8500 15000 30000

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 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")
```

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

VEL TECH - CSE	
EX NO.	3
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	1
RECORD (5)	5.6
TOTAL (20)	16.6

13/8/25