1.

import random

random\_number=random.randint(2,10)

print("Random number:",random\_number)

output:

Random number: 5

2.

import datetime

current\_datetime=datetime.datetime.now()

print("current date and time:",current\_datetime)

output:

current date and time: 2025-06-04 05:19:41.139029

3.

import math

number=25

sqrt=math.sqrt(number)

print("sqrt Root:",sqrt)

output:

sqrt Root: 5.0

4.

import math

factorial=math.factorial(5)

print("factorial:",factorial)

output:

factorial: 120

5.

file\_path="example.txt"

with open(file\_path,"w")as file:

file.write("Hello,world!")

with open(file\_path,"r")as file:

content=file.read()

print("file content:",content)

output:

file content: Hello,world!

6.

import string

text="hello,world!"

uppercase\_text=text.upper()

print("uppercase text:",uppercase\_text)

output:

uppercase text: HELLO,WORLD!

7.

import secrets

random\_number=secrets.randbelow(10)+1

print("crypto graphicallt secure random number:",random\_number)

output:

crypto graphicallt secure random number: 1

8.

import platform

system\_name=platform.system()

node\_name=platform.node()

processor\_name=platform.processor()

print("system Name:",system\_name)

print("Node Name:",node\_name)

print("processor Name:",processor\_name)

output:

system Name: Windows

Node Name: miclab

processor Name: Intel64 Family 6 Model 42 Stepping 7, GenuineIntel