```
# os Modul
import os
for i in range(1, 11):
  Ramiz = f"day_{i}"
  if not os.path.exists(Ramiz):
    os.makedirs(Ramiz)
    print(f"The Folder is Creted :{Ramiz}")
  else:
    print(f"The Folder is Allrasy exist :")
#logging module 1.
import logging
logging.basicConfig(level=logging.DEBUG)
logging.debug("This is a Debug Message:")
logging.info("This is a info message:")
logging.error("This is a Error Message:")
logging.critical("This is a Critical Message:")
logging.warning("This is a Warning message:")
```

```
# Loging module 2 -> (File):
import logging
logging.basicConfig(
  filename = "loging_log.log",
  level=logging.DEBUG,
  format="%(asctime)s - %(levelname)s - %(message)s -"
)
logging.debug("This is a Debug :")
logging.info("This is a Info:")
logging.warning("This is a Waring:")
logging.error("This is a Error:")
logging.critical("This is a Critical:")
# Render Module:
import re
My_phonenumber = "My phone number is 9641988821"
patten = r'' d+''
matches = re.findall(patten , My_phonenumber)
print(matches)
```

```
# Json Module:
import json
Student = {
 "name": "Ramiz",
 "age": 22,
 "course": "python",
 "skill": ["Python", "ML", "AI"],
 "active": True
}
# Write JSON data to a file
with open("Student.json", "w") as f:
 json.dump(Student, f, indent=4)
# Read JSON data from the file
with open("Student.json", "r") as f:
 data = json.load(f)
print("Name:", data["name"])
print("Skills:", ", ".join(data["skill"]))
# Jeson Modul 2:
import json
```

```
# Existing data (List of students)
students = [
 {"name": "Ali", "age": 21, "course": "Python"},
 {"name": "Sara", "age": 22, "course": "AI"},
 {"name": "Ramiz", "age": 23, "course": "Data Science"}
1
# Write to JSON file
with open("students.json", "w") as f:
 json.dump(students, f, indent=4)
# Read the JSON file
with open("students.json", "r") as f:
 data = json.load(f)
# Add a new student
new_student = {"name": "Zara", "age": 20, "course": "Web Development"}
data.append(new_student)
# Write updated data back to JSON file
with open("students.json", "w") as f:
 json.dump(data, f, indent=4)
# Print all student names
print("All Students:")
for student in data:
  print("-", student["name"]) ----- End !
# Jeson Modul 3
```

```
import json
Student = {"naem": "Ramiz", 'Age': 21, "Course": "Ai"}
json_string = json.dumps(Student, indent= 4)
print(json_string)
# json 4
import json
json_data ='{"name": "Ramiz", "Age": 21}'
Student = json.loads(json_data)
print(Student)
# Timer 1
import time
print("Current Timestamp:", time.time())
print("Wait for 2 seconds......")
time.sleep(2)
print("Done!")
local_time = time.localtime()
print("Local Time:", time.strftime("%Y -%m-%d %H: %M: %S", local_time))
```

Date or Time 1

```
import datetime
now = datetime.datetime.now()
print("Current date and time", now)
# Date or Time 2
import datetime
today = datetime.date.today()
print("Today 's Date ", today)
print("Year:", today.year)
print("Year:", today.month)
print("Day:", today.day)
# Date or Time 3
import datetime
now = datetime.datetime.now()
formatted_date = now.strftime("%d/%m/%Y")
```

```
print("Formatted date:", formatted_date)
formatted_date =now.strftime("%I: %M %p")
print("Formatted Time:", formatted_date)
# Date or time 4
from datetime import datetime
custom_dt = datetime(2025, 12, 25, 10, 30)
print("Custome DateTime:", custom_dt)
print("Formatted", custom_dt.strftime("%A, %d %B %Y, %l:%M:%p"))
# Date or Time 5
from datetime import datetime, timedelta
now = datetime.now()
print("Current Time:", now)
```

```
future_date = now + timedelta(days = 7)
print("After 7 days is :", future_date)
past_date = now - timedelta(days=10)
print("10 Days Ago :", past_date)
```