DAY 13 TASK.py - C:/Users/krsub/OneDrive/Desktop/internship/DAY 13 TASK.py (3.10.0)

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```
#task 1
import csv

with open("employee_data.csv", "w", newline="") as file:
    writer = csv.writer(file)
    writer.writerow(["Name", "Age", "Department"])
    writer.writerow(["Alice", "25", "HR"])
    writer.writerow(["Bob", "30", "Finance"])
    writer.writerow(["Charlie", "28", "IT"])

print("Employee Data Written Successfully!")
print("Reading employee_data.csv...")

with open("employee_data.csv", "r") as file:
    reader = csv.reader(file)
    for row in reader:
        print(row)

data = [
    {"Name": "David", "Age": 32, "Department": "Sales"},
    {"Name": "Eva", "Age": 27, "Department": "Marketing"},
    {"Name": "Frank", "Age": 35, "Department": "Operations"}
]

with open("employee_dict.csv", "w", newline="") as file:
    writer = csv.DictWriter(file, fieldnames=["Name", "Age", "Department"])
    writer.writeheader()
    writer.writerows(data)

print("Dictionary CSV file created successfully!")


#task 2

from datetime import datetime

now = datetime.now()

print("System Date:", now.date())
print("System Time:", now.time().replace(microsecond=0))
print("Year :", now.year)
print("Month:", now.month)
print("Day :", now.day)
print("Formatted Date & Time:", now.strftime("%Y-%m-%d %H:%M:%S"))

#Task 3
```

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#Task 3

import time

print("Current Timestamp:", time.time())
print("Readable Time:", time.ctime())
print("Waiting for 2 seconds...")
time.sleep(2)
print("Continuing execution...")

#task 4

import zipfile
import tarfile

with zipfile.ZipFile("backup.zip", "w") as zipf:
    zipf.write("employee_data.csv")
    zipf.write("employee_dict.csv")

with tarfile.open("backup.tar.gz", "w:gz") as tar:
    tar.add("employee_data.csv")
    tar.add("employee_dict.csv")

with zipfile.ZipFile("backup.zip", "r") as zipf:
    print("Files inside backup.zip:")
    print(zipf.namelist())

with tarfile.open("backup.tar.gz", "r:gz") as tar:
    print("Files inside backup.tar.gz:")
    print(tar.getnames())

print("Backup completed successfully!")


Task 5

import threading
import time

def background_backup():
    for _ in range(3):
        print("Backup running in background...")
        time.sleep(2)

thread = threading.Thread(target=background_backup)
thread.start()
```

```
Task 5

import threading
import time

def background_backup():
    for _ in range(3):
        print("Backup running in background...")
        time.sleep(2)

thread = threading.Thread(target=background_backup)
thread.start()

print("Main program continues working...")
thread.join()
print("Main thread finished!")
print("Program Completed Successfully!")
```

```
====== RESTART: C:/Users/krsub/OneDrive/Desktop/internship/DAY 13 TASK.py =
Employee Data Written Successfully!
Reading employee_data.csv...
['Name', 'Age', 'Department']
['Alice', '25', 'HR']
['Bob', '30', 'Finance']
['Charlie', '28', 'IT']
Dictionary CSV file created successfully!
>>
====== RESTART: C:/Users/krsub/OneDrive/Desktop/internship/DAY 13 TASK.py =
System Date: 2026-02-16
System Time: 19:40:39
Year : 2026
Month: 2
Day : 16
Formatted Date & Time: 2026-02-16 19:40:39
>>
====== RESTART: C:/Users/krsub/OneDrive/Desktop/internship/DAY 13 TASK.py =
Current Timestamp: 1771251077.9048028
Readable Time: Mon Feb 16 19:41:17 2026
Waiting for 2 seconds...
Continuing execution...
>>
====== RESTART: C:/Users/krsub/OneDrive/Desktop/internship/DAY 13 TASK.py =
Files inside backup.zip:
['employee_data.csv', 'employee_dict.csv']
Files inside backup.tar.gz:
['employee_data.csv', 'employee_dict.csv']
Backup completed successfully!
>>
====== RESTART: C:/Users/krsub/OneDrive/Desktop/internship/DAY 13 TASK.py =
Main program continues working...Backup running in background...

Backup running in background...
Backup running in background...
Main thread finished!
Program Completed Successfully!
>>
```