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ASSIGNMENT:-02

1]Store and display student information (name, age, grade).

In [1]:
```
student=("omvs",21,"A grade")

print("student name:",student[0])
print("student age:",student[1])
print("student grade:",student[2])
```

```
student name: omvs
student age: 21
student grade: A grade
```

2]List prices of grocery items and total them.

In [2]:
```
groceries=(
    ("apple",10),
    ("milk",20),
    ("soap",30),
    ("bottle",40),
    ("rice",50)
)

print("grocery list:")
total_cost=0
for item in groceries:
    print(f"{item[0]}: rupee{item[1]}")
    total_cost+= item[1]

print("\nTotal cost: rupee",total_cost)
```

```
grocery list: apple: rupee10 milk: rupee20 soap: rupee30 bottle: rupee40 rice: rupee50
Total cost: rupee 150
```

3]Pair items with prices using tuples. ("Milk", 25), ("Eggs", 50), ("Bread", 20)

In [8]:
```
grocery_items = (
("Milk", 25),
("Eggs", 50),
("Bread", 20) )
```

```
print("Grocery Items and Prices:")
for item in grocery_items:
    print(f"{item[0]}:        ₹{item[1]}")
```

```
Grocery Items and Prices:
Milk:    ₹50
Eggs:    ₹25
Bread:   ₹20
```

4]Store and display train schedule as tuples. ("Rajdhani","10:00"), ("Shatabdi","12:30"), ("Duronto","17:00")

In [9]:
```
Schedule=(
    ("Rajdhani","10:00"),
    ("Shatabdi","12:30"),
    ("Duronto","17:00")
)

print("Train and its Time:")
for train in Schedule:
    print(f"{train[0]}={train[1]}")
```

```
Train and its Time:
Rajdhani=10:00
Shatabdi=12:30
Duronto=17:00
```

5] Sort employee records by salary. ("John", 40000), ("Alice", 55000), ("Raj", 30000)

In [11]:
```
Employee_Records= (
    ("John",40000),
    ("Alice",55000),
    ("Raj",30000)
)

print("Employee and thier records:")
for Employee in Employee_Records:
    print(f"{Employee[0]}={Employee[1]}")
```

```
Employee and thier records:
John=40000
Alice=55000
Raj=30000
```

6]Count how many students scored above 75 marks. marks = (67, 88, 92, 74, 76, 55)

In [13]:
```
Marks=(67, 88, 92, 74, 76, 55)
above_75_marks=sum(1 for mark in Marks if mark>75)
print(f"The marks above 75 mark is:{above_75_marks}")
```

```
The marks above 75 mark is:3
```

7]Create a tuple of stock prices and find the max. Prices = (154.5, 160.2, 149.8, 170.1)

In [15]:
```
prices = (154.5, 160.2, 149.8, 170.1)
max_price = max(prices)
print(f"The maximum price in Given Prices is:{max_price}")
```

The maximum price in Given Prices is:170.1

8]Log temperature readings during the day. Find the average temperature temperatures = (29.5, 30.0, 32.2, 31.5, 28.9)

In [17]:
```
temperatures = (29.5, 30.0, 32.2, 31.5, 28.9)
Average_temp=sum(temperatures)/len(temperatures)
print(f"Average Temperature={Average_temp:.2f} c")
```

Average Temperature=30.42 c

9]Schedule appointments (name, time). appointments = ("Doctor", "10:00 AM"), ("Meeting","2:00 PM")

In [19]:
```
appointments = (
                    ("Doctor", "10:00 AM"),
                    ("Meeting","2:00 PM")
                )
print("Appointments:")
for appointment in appointments:
    print(f"{appointment[0]}->{appointment[1]}")
```

Appointments:
Doctor->10:00 AM
Meeting->2:00 PM

10]Store contact info (name, phone number). contacts = ("Anil","9876543210"), ("Priya","9123456780")

In [20]:
```
contacts = (
    ("Anil","9876543210"),
    ("Priya","9123456780")
)
print("Contact List:") for
contact in contacts:
    print(f"Name:{contact[0]}, Phone number:{contact[1]}")
```

Contact List:
Name:Anil, Phone number:9876543210
Name:Priya, Phone number:9123456780

11]Display exam schedule with subject and time. exams = ("Math", "9:00 AM"), ("Science", "11:30 AM"), ("English", "2:00 PM")

In [22]:
```
exams = (
    ("Math","9:00 AM"),
    ("Science","11:30 AM"),
    ("English","2:00 PM")
)

print("Exam Schedule:")
for tt in exams:
    print(f"Subject={tt[0]}                Time={tt[1]}")
```

Exam Schedule:
Subject=Math Time=9:00 AM
Subject=Science Time=11:30 AM
Subject=English Time=2:00 PM

In [ ]:
```

```