Practical Assignment 2

Use Tuple for the following programs

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

In [42]:
```
student = ("John Doe",20,"A")
print("Name:", student[0])
print("Age:", student[1])
print("
```

2.List price of grocery items and total them

In [20]:
```
grocery_items=(

     ("Milk",2.50),
     ("Bread",1.75),
     ("Egg",3.00),
     ("Apples",4.50),
     ("Chicken",7.00)
)

print("Grocery Prices:")
total_cost = 0
for item,price in grocery_items:
   print(f"{item}:${price:2f}")
   total_cost += price

print(f"Total cost:${total_cost:.2f}")
```

```
Grocery Prices:
Milk:$2.500000
Bread:$1.750000
Egg:$3.000000
Apples:$4.500000
Chicken:$7.000000
Total cost:$18.75
```

3.Pair items with prices using tuples.

In [26]:
```
items_prices = [
    ("Laptop",1200),
    ("Mouse",25),
    ("Keyboard",75),
    ("Monitor",300)

 ]

for item, price in items_prices:
     print(f"{item}: ${price}")
```

```
Laptop: $1200
Mouse: $25
Keyboard: $75
Monitor: $300
```

4.Store and display train schedule as tuples

("Rajdhani","10:00"), ("Shatabdi","12:30"), ("Duronto","17:00")

In [29]:
```
train_schedule = (("Rajdhani","10:00"), ("Shatabdi","12:30"), ("Duronto","1

for train, time in train_schedule:
     print(f"Train: {train}, Time: {time}")
```

```
Train: Rajdhani, Time: 10:00
Train: Shatabdi, Time: 12:30
Train: Duronto, Time: 17:00
```

5.Sort empoyee records by salary .

("John",40000),("Alice",55000),("Raj",30000)

In [31]:
```
employee_records = [("John",40000),("Alice",55000),("Raj",30000)]

sorted_employees = sorted(employee_records, key=lambda x: x[1])

print(sorted_employees)
```

```
[('Raj', 30000), ('John', 40000), ('Alice', 55000)]
```

6.Count how many students scored above 75 marks.

marks = (67,88,92,74,76,55)

In [32]:
```
marks = (67,88,92,74,76,55)
count = 0
for mark in marks:
    if mark>75:
        count += 1

print(count)
```

```
3
```

7.Create a tuple of stock prices and find the max.

prices(154.5,160.2,149.8,170.1)

In [33]:
```
prices = (154.5,160.2,149.8,170.1)
max_price = max(prices)
print(f"The maximum stock price is: {max_price}")
```

```
The maximum stock price is: 170.1
```

8.Log temperature readings during the day.Find the average temperature

temperatures = (29.5,30.0,32.3,31.5,28.9)

In [34]:
```
temperatures = (29.5,30.0,32.2,31.5,28.9)
average_temp = sum(temperatures) /len(temperatures)
print("Average Temperature:",average_temp)
```

```
Average Temperature: 30.419999999999998
```

9.Schedule appointements(name,time)

appointments = ("Doctors","10:00AM"), ("Meeting","2:00PM")

In [36]:
```
appointments = (("Doctor", "10:00 AM"), ("Meeting", "2:00 PM"))
for name, time in appointments:
    print(f"{name}: {time}")
```

```
Doctor: 10:00 AM
Meeting: 2:00 PM
```

10.Store contact info(name,phone number).

contacts = ("Anil","9876543210"), ("Priya","9123456780")

In [40]:
```
contacts = (("Anil","9876543210"), ("Priya","9123456780"))
for name,number in contacts:
    print(f"{name}: {number}")
```

```
Anil: 9876543210
Priya: 9123456780
```

11.Display exam schedule with subject and time.

exams = ("Math","9:00 AM"),("Science","11:30 AM"), ("English","2:00 PM)

In [41]:
```
exams = (("Maths","9:00 AM"),("Science","11:30 AM"),("English","2:00 PM"))
for subject, time in exams:
    print(f"{subject}: {time}")
```

```
Maths: 9:00 AM
Science: 11:30 AM
English: 2:00 PM
```

In [ ]:
```

```