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L-34 Dynamic Memory Allocation in C मराठीत | malloc(), calloc(), realloc(), free()

👉 जर तू **AI Engineer, Data Scientist, Web Developer किंवा Hacker** व्हायचं ठरवलं असेल —

तर Python हा पहिला आणि सर्वात महत्त्वाचा step आहे 💻🔥

🧩 Part 1: Basic Level List Programs
🧠 Q1. Create a list of 5 fruits and print it

```
fruits = ["apple", "banana", "mango", "grapes", "orange"]
print("Fruits List:", fruits)
```

🧠 Q2. Access the 1st, 3rd, and last element from a list of cities

```
cities = ["Pune", "Mumbai", "Nagpur", "Nashik", "Kolhapur"]
print("1st city:", cities[0])
print("3rd city:", cities[2])
print("Last city:", cities[-1])
```

🧠 Q3. Find the sum of all elements in a list

```
numbers = [10, 20, 30, 40, 50]
total = sum(numbers)
print("Sum of numbers:", total)
```

🧠 Q4. Add a new element using `append()`

```
subjects = ["Math", "Science", "English"]
subjects.append("History")
print("Updated list:", subjects)
```

🧠 Q5. Remove one element using `remove()`

```
colors = ["red", "blue", "green", "yellow"]
colors.remove("green")
print("After removing:", colors)
```

💡 Part 2: Real-Life + Hard Level List Programs
🧠 Q6. Find the highest and lowest marks

```
marks = [45, 67, 89, 90, 56]
print("Highest marks:", max(marks))
print("Lowest marks:", min(marks))
```

🧠 Q7. Sort the list in ascending and descending order

```
data = [5, 2, 8, 1, 9]
data.sort()
print("Ascending order:", data)
data.sort(reverse=True)
print("Descending order:", data)
```

🧠 Q8. Remove one item and insert a new one

```
items = ["pen", "book", "pencil", "eraser", "scale"]
items.remove("pencil")
items.insert(2, "marker")
print("Updated items:", items)
```

🧠 Q9. Count how many times a name appears

```
names = ["Raj", "Amit", "Raj", "Sneha", "Raj"]
count_raj = names.count("Raj")
print("Raj appears", count_raj, "times.")
```

Tuple

🧠 Q1. Create a tuple of 5 fruits and print it.

```
fruits = ("apple", "banana", "mango", "grapes", "orange")
print("Fruits tuple:", fruits)
```

🧠 Q2. Access first, middle, and last element from a tuple.

```
colors = ("red", "blue", "green", "yellow", "purple")
print("First:", colors[0])
print("Middle:", colors[2])
print("Last:", colors[-1])
```

🧠 Q3. Demonstrate tuple slicing.

```
numbers = (10, 20, 30, 40, 50, 60)
print("First three:", numbers[:3])
print("Last three:", numbers[-3:])
print("Alternate elements:", numbers[::2])
```

🧠 Q4. Find length of a tuple.

```
cities = ("Pune", "Mumbai", "Delhi", "Chennai")
print("Total cities:", len(cities))
```

🧠 Q5. Check if a value exists in a tuple.

```
animals = ("dog", "cat", "lion", "tiger")
if "cat" in animals:
    print("Cat is present")
else:
    print("Cat not found")
```

🧠 Q6. Create a tuple of student marks and find average marks.

```
marks = (75, 80, 65, 90, 85)
average = sum(marks) / len(marks)
print("Average Marks:", average)
```

🧠 Q7. Concatenate two tuples and print result.

```
tuple1 = (1, 2, 3)
tuple2 = (4, 5, 6)
result = tuple1 + tuple2
print("Combined tuple:", result)
```

🧠 Q8. Count how many times a number appears in a tuple.

```
numbers = (1, 2, 3, 2, 4, 2, 5)
print("2 appears:", numbers.count(2), "times")
```

🧠 Q9. Find the index of an element in a tuple.

```
names = ("Amit", "Sneha", "Raj", "Riya")
print("Index of Raj:", names.index("Raj"))
```

🧠 Q10. Real-life Example: Store employee data (name, age, salary) in tuple and print it.

```
employee = ("Rohan", 28, 45000)
print("Employee Name:", employee[0])
print("Age:", employee[1])
print("Salary:", employee[2])
```

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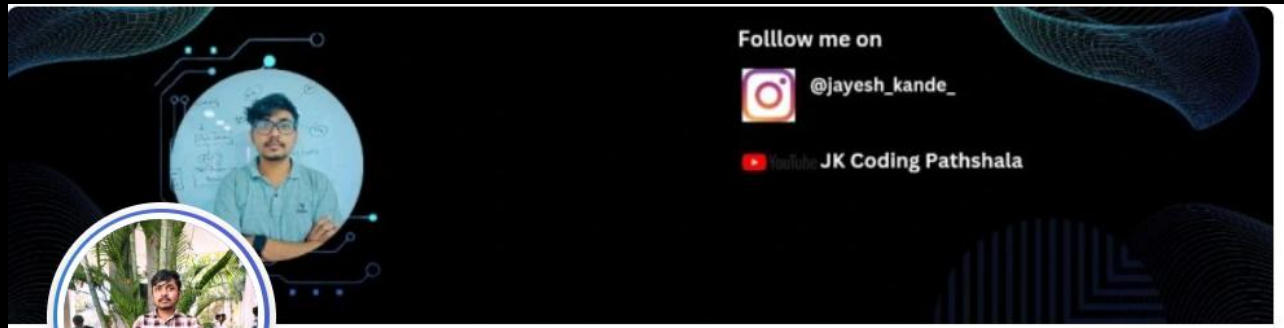

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