
📄 JAVA ASSIGNMENT – CONSTRUCTORS

◆ SECTION A – NON-PARAMETERIZED CONSTRUCTORS

Q1 — Person with default values

Task:

Create a `Person` class with two fields:

- `String name`
- `int age`

Provide a default constructor that initializes:

- `name = "Unknown"`
- `age = 0`

In the `main` method, create a `Person` object using the default constructor and print the details.

Notes:

No input from user; object is created directly in `main`.

Sample Output:

Name : Unknown
Age : 0

Q2 — Student default then print message

Task:

Create a Student class with fields:

- String name
- int grade

Provide a default constructor that sets:

- name = "NoName"
- grade = 1

The constructor must also print "Student created".

In main, create the object and then print name and grade.

Sample Output:

```
Student created
Name: NoName
Grade: 1
```

Q3 — Car with default brand and model

Task:

Create a Car class with fields:

- String brand
- String model

Default constructor should assign:

- brand = "Unknown"
- model = "Base Model"

In main, create an object and print the values.

Sample Output:

Brand: Unknown
Model: Base Model

Q4 — Employee with default name and salary

Task:

Create an Employee class with:

- String name
- double salary

Default constructor must set:

- name = "Not Assigned"
- salary = 0.0

Print the details in main.

Sample Output:

Employee Name: Not Assigned
Salary: 0.0

Q5 — Book with default title and pages

Task:

Create a Book class with fields:

- String title
- int pages

Default constructor must assign:

- title = "Untitled"
- pages = 100

Print the details in main.

Sample Output:

Title: Untitled
Pages: 100

Q6 — Mobile with default company and price

Task:

Create a Mobile class with:

- String company
- double price

Default constructor should initialize:

- company = "Generic"
- price = 999.99

Print all details in main.

Sample Output:

Company: Generic
Price: 999.99

Q7 — Laptop with default RAM and storage

Task:

Create a Laptop class with:

- int ram
- int storage

Default constructor must set:

- ram = 4
- storage = 256

Print specifications in main.

Sample Output:

RAM: 4GB
Storage: 256GB

Q8 — BankAccount with default account number and balance

Task:

Create a BankAccount class with:

- String accountNo
- double balance

Default constructor should assign:

- accountNo = "NA"
- balance = 0.0

Print both values.

Sample Output:

Account No: NA

Balance: 0.0

◆ SECTION B – PARAMETERIZED CONSTRUCTORS

Q9 — Student with name and roll number

Task:

Create a Student class with:

- String name
- int rollNo

Provide a parameterized constructor to initialize both fields.

Print the details in main.

Sample Output:

Name: Rahul

Roll No: 15

Q10 — Product with name and cost

Task:

Create a Product class with:

- String productName
- double cost

Initialize these fields using a parameterized constructor.

Print the values.

Sample Output:

Product: Keyboard
Cost: 999.0

Q11 — Rectangle with length and width

Task:

Create a Rectangle class with:

- int length
- int width

Use a parameterized constructor to set the values.

Print dimensions.

Sample Output:

Length: 10
Width: 5

Q12 — Movie with title and rating

Task:

Create a Movie class with:

- String title
- double rating

Assign values using a parameterized constructor.

Sample Output:

Movie Title: Inception
Rating: 8.8

Q13 — Employee with name and salary

Task:

Create an Employee class with:

- String name
- double salary

Initialize with a parameterized constructor.

Print details.

Sample Output:

```
Employee: John  
Salary: 50000.0
```

Q14 — Car with brand and model

Task:

Create a Car class with:

- String brand
- String model

Provide a parameterized constructor to assign values.

Sample Output:

```
Brand: Honda  
Model: City
```

Q15 — City with name and population

Task:

Create a City class with:

by Kunal Sir

- String cityName
- long population

Initialize through a parameterized constructor.

Print the values.

Sample Output:

```
City: Pune  
Population: 5000000
```

Q16 — Account with account number and type

Task:

Create an Account class with:

- String accountNumber
- String accountType

Initialize both fields using a parameterized constructor.

Print the details.

Sample Output:

```
Account Number: 12345  
Type: Savings
```
