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## JAVA ASSIGNMENT – CONSTRUCTORS

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### ◆ SECTION A – NON-PARAMETERIZED CONSTRUCTORS

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#### 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

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## 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"

**by Kunal Sir**

In main, create an object and print the values.

### **Sample Output:**

Brand: Unknown

Model: Base Model

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### **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

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### **Q5 — Book with default title and pages**

#### **Task:**

Create a Book class with fields:

- String title
- int pages

**by Kunal Sir**

Default constructor must assign:

- title = "Untitled"
- pages = 100

Print the details in main.

**Sample Output:**

Title: Untitled

Pages: 100

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**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

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## 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

Complete Java Classes

### Task:

Create a BankAccount class with:

- String accountNo
- double balance

Default constructor should assign:

- accountNo = "NA"
- balance = 0.0

Print both values.

### Sample Output:

**by Kunal Sir**

Account No: NA

Balance: 0.0

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## ◆ SECTION B – PARAMETERIZED CONSTRUCTORS

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### 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

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### 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:**

**by Kunal Sir**

Product: Keyboard

Cost: 999.0

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### **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

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### **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

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### **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

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### **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

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### **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

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### **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

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