

# Instance , Static And Local Variable In Java

Object Oriented Programming Using java

\* Indicates required question

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1. Email \*

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2. Name \*

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3. University ID \*

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4. Class roll number \*

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*Mark only one oval.*

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## 6. Email \*

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## Static variables

## 7. Question 1:

\* 1 point

Which keyword is used to declare a static variable in Java?

*Mark only one oval.*

☐ A) static

☐ B) var

☐ C) final

☐ D) const

## Static variables

## 8. Question 2:

\*

1 point

Static variables are also known as:

*Mark only one oval.*

☐ A) Local variables

☐ B) Instance variables

☐ C) Class variables

☐ D) Dynamic variables

## Static variable

## 9. Question 3:

\* 1 point

What is the main characteristic of a static variable?

*Mark only one oval.*

- ☐ A) It can be accessed only within the method it is declared
- ☐ B) It can be accessed using an instance of the class
- ☐ C) It is shared among all instances of the class
- ☐ D) It can be modified by any method in the class

## Static variable

## 10. Question 4:

\* 1 point

Which of the following is true about static variables?

*Mark only one oval.*

- ☐ A) Each instance of the class has its own copy of a static variable
- ☐ B) Static variables are automatically initialized to 0
- ☐ C) Static variables are stored on the heap memory
- ☐ D) Static variables can be declared with the "final" keyword

## Static variable

11. Question 5: \* 1 point
- Which of the following is a valid declaration of a static variable named "count"?

*Mark only one oval.*

- ☐ A) static count = 0;
- ☐ B) static int count = 0;
- ☐ C) int static count = 0;
- ☐ D) int count = static 0;

## Static variable

12. Question 6: \* 1 point
- Where is the memory allocated for static variables in Java?

*Mark only one oval.*

- ☐ A) Stack
- ☐ B) Heap
- ☐ C) Method area (Class area)
- ☐ D) Local memory

## Static Variable

## 13. Question 7:

\* 1 point

Which of the following statements is true regarding the initialization of static variables?

*Mark only one oval.*

- ☐ A) Static variables are initialized at the time of object creation.
- ☐ B) Static variables are initialized when the class is loaded.
- ☐ C) Static variables must be explicitly initialized in the constructor.
- ☐ D) Static variables are initialized only when they are accessed for the first time.

## Static Variable

## 14. Question 8:

\* 1 point

Which access modifier is often used with static variables to make them accessible only within the class?

*Mark only one oval.*

- ☐ A) public
- ☐ B) protected
- ☐ C) private
- ☐ D) static

## Static variable

15. Question 9: \* 1 point
- What is the significance of using static variables in Java?

*Mark only one oval.*

- ☐ A) They improve the efficiency of memory usage.
- ☐ B) They help in achieving encapsulation.
- ☐ C) They allow data to be shared across all instances of the class.
- ☐ D) They are used for creating local variables within methods.

## Static Variable

16. Question 10: \* 1 point
- Can static variables be accessed without creating an instance of the class?

*Mark only one oval.*

- ☐ A) Yes, static variables can be accessed using the class name.
- ☐ B) No, static variables can only be accessed through an instance of the class.
- ☐ C) Yes, but only if they are declared as public.
- ☐ D) No, static variables cannot be accessed in any way.

multiple-choice questions (MCQs) related to Java instance variables:

17. Question 1: \* 1 point
- Instance variables in Java are also known as:

*Mark only one oval.*

- ☐ A) Static variables
- ☐ B) Local variables
- ☐ C) Dynamic variables
- ☐ D) Object variables

multiple-choice questions (MCQs) related to Java instance variables:

18. Question 2: \* 1 point
- Where are instance variables stored in Java?

*Mark only one oval.*

- ☐ A) Stack
- ☐ B) Heap
- ☐ C) Method area (Class area)
- ☐ D) Local memory

multiple-choice questions (MCQs) related to Java instance variables:

19. Question 3: \* 1 point
- Which keyword is used to declare an instance variable in Java?

*Mark only one oval.*

- ☐ A) instance
- ☐ B) var
- ☐ C) final
- ☐ D) this

multiple-choice questions (MCQs) related to Java instance variables:

20. Question 4: \* 1 point
- What is the main characteristic of an instance variable?

*Mark only one oval.*

- ☐ A) It can be accessed using the class name
- ☐ B) It is shared among all instances of the class
- ☐ C) It is created when a method is invoked
- ☐ D) Each instance of the class has its own copy of an instance variable

multiple-choice questions (MCQs) related to Java instance variables:



21. Question 5: \* 1 point

Instance variables are initialized:

*Mark only one oval.*

- ☐ A) At the time of class loading
- ☐ B) Automatically to default values
- ☐ C) Using the "new" keyword
- ☐ D) Within the constructor or directly at the point of declaration

multiple-choice questions (MCQs) related to Java instance variables:

22. Question 6: \* 1 point

Which of the following is a valid declaration of an instance variable named "age"?

*Mark only one oval.*

- ☐ A) instance age = 25;
- ☐ B) int age = instance 25;
- ☐ C) static int age = 25;
- ☐ D) int age = 25;

multiple-choice questions (MCQs) related to Java instance variables:

23. Question 7: \* 1 point

Which access modifier is often used with instance variables to make them accessible only within the class?

*Mark only one oval.*

- ☐ A) public
- ☐ B) protected
- ☐ C) private
- ☐ D) instance

multiple-choice questions (MCQs) related to Java instance variables:

24. Question 8: \* 1 point

Instance variables can be accessed:

*Mark only one oval.*

- ☐ A) Using the "this" keyword or the object reference of the class.
- ☐ B) Using the class name
- ☐ C) Only within the constructor
- ☐ D) Only within static methods

multiple-choice questions (MCQs) related to Java instance variables:

25. Question 9: \* 1 point
- What is the scope of an instance variable?

*Mark only one oval.*

- ☐ A) It is limited to the method it is declared in
- ☐ B) It is limited to the class it is declared in
- ☐ C) It is limited to the package it is declared in
- ☐ D) It is limited to the block of code it is declared in

multiple-choice questions (MCQs) related to Java instance variables:

26. Question 10: \* 1 point
- When are instance variables destroyed?

*Mark only one oval.*

- ☐ A) When the program terminates
- ☐ B) When the class is unloaded from memory
- ☐ C) When the object that contains them is garbage collected
- ☐ D) When the instance variable is no longer needed

multiple-choice questions (MCQs) related to Java local variables:

27. Question 1: \* 1 point
- Local variables in Java are declared within:

*Mark only one oval.*

- ☐ A) The class body
- ☐ B) The method body
- ☐ C) The constructor
- ☐ D) The instance block

multiple-choice questions (MCQs) related to Java local variables:

28. Question 2: \* 1 point
- What is the scope of a local variable?

*Mark only one oval.*

- ☐ A) It is limited to the class it is declared in
- ☐ B) It is limited to the package it is declared in
- ☐ C) It is limited to the method it is declared in
- ☐ D) It is limited to the block of code it is declared in

multiple-choice questions (MCQs) related to Java local variables:

29.

\* 1 point

**Question 3:**

Which access modifier is often used with local variables?

*Mark only one oval.*

- ☐ A) public
- ☐ B) protected
- ☐ C) private
- ☐ D) No access modifier is needed

multiple-choice questions (MCQs) related to Java local variables:

30.

\*

1 point

**Question 4:**

When are local variables destroyed?

*Mark only one oval.*

- ☐ A) When the program terminates
- ☐ B) When the class is unloaded from memory
- ☐ C) When the method in which they are declared exits or completes
- ☐ D) When the instance variable is no longer needed

multiple-choice questions (MCQs) related to Java local variables:

31. Question 5: \* 1 point
- What is the main characteristic of a local variable?

*Mark only one oval.*

- ☐ A) It can be accessed within any method of the class
- ☐ B) It can be accessed using the class name
- ☐ C) It is created when an object is created
- ☐ D) It is only accessible within the block of code it is declared in

multiple-choice questions (MCQs) related to Java local variables:

32. Question 6: \* 1 point
- Local variables are initialized:

*Mark only one oval.*

- ☐ A) At the time of class loading
- ☐ B) Automatically to default values
- ☐ C) Using the "new" keyword
- ☐ D) Within the method or block of code in which they are declared

multiple-choice questions (MCQs) related to Java local variables:

33. Question 7: \* 1 point

Which of the following is a valid declaration of a local variable named "count"?

*Mark only one oval.*

- ☐ A) local count = 5;
- ☐ B) int count = local 5;
- ☐ C) int count = 5;
- ☐ D) count = 5;

multiple-choice questions (MCQs) related to Java local variables:

34. Question 8: \* 1 point

Local variables must be initialized:

*Mark only one oval.*

- ☐ A) Before they are declared
- ☐ B) At the end of the program
- ☐ C) Within a loop
- ☐ D) Before they are used

multiple-choice questions (MCQs) related to Java local variables:

35.

Question 9:

\*

1 point

Can local variables have access modifiers?

*Mark only one oval.*

- ☐ A) Yes, they can have any access modifier
- ☐ B) No, local variables cannot have access modifiers
- ☐ C) Only public and private access modifiers are allowed for local variables
- ☐ D) Only static access modifier is allowed for local variables

multiple-choice questions (MCQs) related to Java local variables:

36.

Question 10:

\* 1 point

What happens if you try to access a local variable outside of its scope?

*Mark only one oval.*

- ☐ A) The program will compile successfully but throw a runtime error
- ☐ B) The program will not compile
- ☐ C) The variable's value will be automatically set to null
- ☐ D) The variable's value will be preserved

multiple-choice questions (MCQs) related to Java local variables:



37. Local variables can be marked as "final". \*

1 point

*Mark only one oval.*

☐ A) True

☐ B) False

multiple-choice questions (MCQs) related to Java local variables:

38. Local variables can have default values if not explicitly initialized.

\* 1 point

*Mark only one oval.*

☐ A) True

☐ B) False

multiple-choice questions (MCQs) related to Java local variables:

39. Local variables can have access modifiers such as public or private. \* 1 point

*Mark only one oval.*

☐ A) True

☐ B) False

**Question:** Consider the following Java class:

40.

\* 1 point

```
public class Car {  
    int speed;  
  
    public Car(int initialSpeed) {  
        speed = initialSpeed;  
    }  
  
    public void increaseSpeed(int increment) {  
        speed += increment;  
    }  
  
    public void displaySpeed() {  
        System.out.println("Speed: " + speed + "  
km/h");  
    }  
}
```

What will be the output of the following code snippet?

```
Car myCar = new Car(60);  
myCar.increaseSpeed(20);  
myCar.displaySpeed();
```

*Mark only one oval.*

☐ a) Speed: 60 km/h

☐ b) Speed: 80 km/h

- ☐ c) Speed: 20 km/h
- ☐ d) Compilation Error

Question: Consider the following Java class:

41. public class BankAccount {  
    double balance;

\* 1 point

    public BankAccount(double initialBalance) {  
        balance = initialBalance;  
    }

    public void deposit(double amount) {  
        balance += amount;  
    }

    public void withdraw(double amount) {  
        if (amount <= balance) {  
            balance -= amount;  
        } else {  
            System.out.println("Insufficient balance.");  
        }  
    }

    public void displayBalance() {  
        System.out.println("Balance: \$" + balance);  
    }  
}

What will be the output of the following code snippet?

BankAccount myAccount = new

```
BankAccount(1000);  
myAccount.deposit(500);  
myAccount.withdraw(300);  
myAccount.displayBalance();
```

*Mark only one oval.*

- ☐ a) Balance: \$700.0
- ☐ b) Balance: \$1200.0
- ☐ c) Balance: \$300.0
- ☐ d) Insufficient balance.

**Question:** Consider the following Java class:

42. public class Product {  
    String name;  
    double price;

\* 1 point

```
    public Product(String productName, double  
productPrice) {  
        name = productName;  
        price = productPrice;  
    }
```

```
    public void displayDetails() {  
        System.out.println("Product: " + name + ",  
Price: $" + price);  
    }  
}
```

What will be the output of the following code snippet?

```
Product laptop = new Product("Laptop", 899.99);  
Product phone = new Product("Phone", 499.99);
```

```
laptop.displayDetails();  
phone.displayDetails();
```

*Mark only one oval.*

- ☐ A) Product: Laptop, Price: \$899.99
- ☐ Product: Phone, Price: \$499.99
- ☐ B) Laptop: \$899.99
- ☐ Phone: \$499.99

- ☐ C) Product: Laptop, Price: Laptop, Price: Phone, Price: \$499.99
- ☐ D) Compilation Error

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