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**Sunbeam**

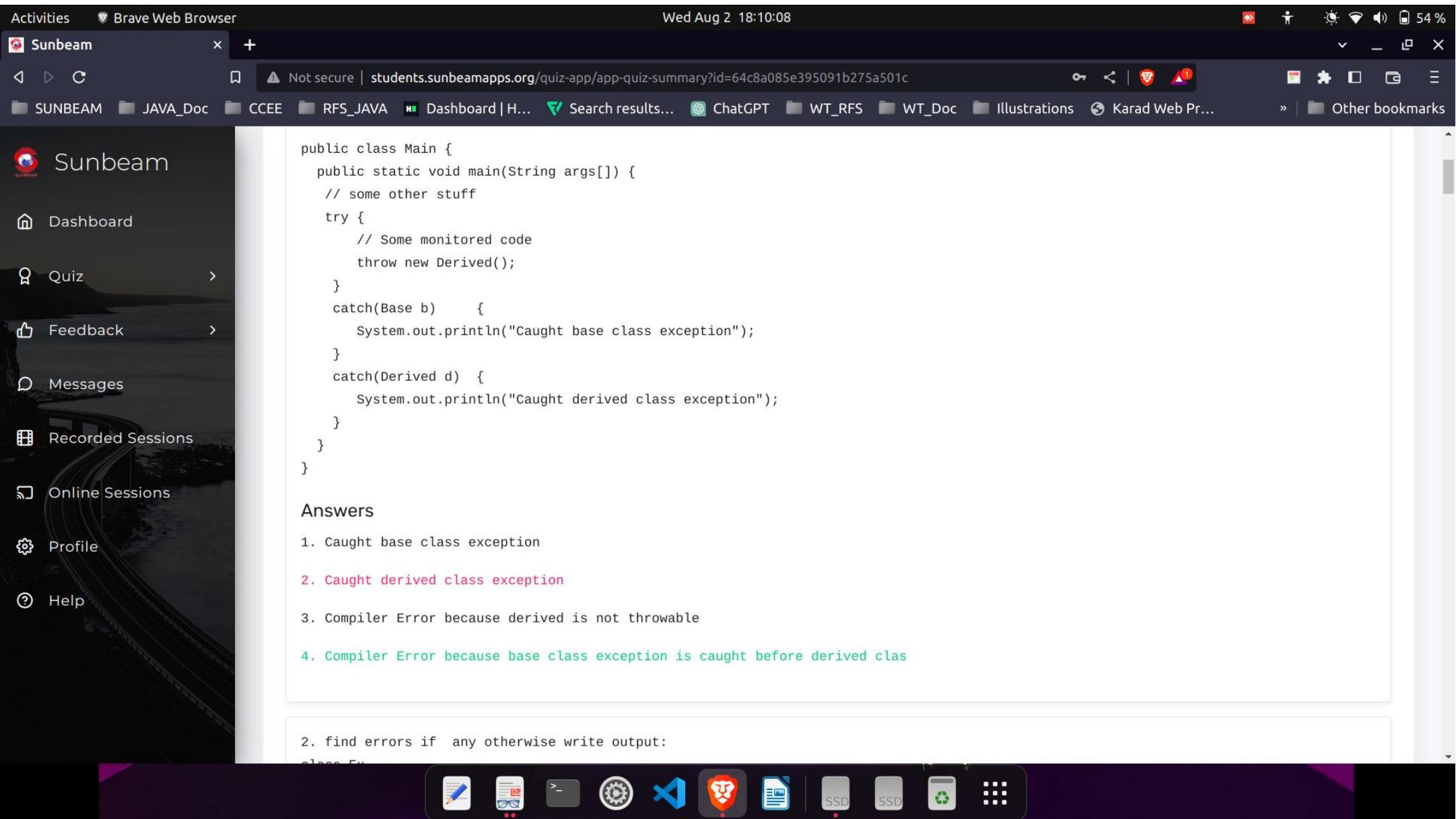
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public class Main {  
 public static void main(String args[]) {  
 // some other stuff  
 try {  
 // Some monitored code  
 throw new Derived();  
 }  
 catch(Base b) {  
 System.out.println("Caught base class exception");  
 }  
 catch(Derived d) {  
 System.out.println("Caught derived class exception");  
 }  
 }  
}

**Answers**

1. Caught base class exception
2. Caught derived class exception
3. Compiler Error because derived is not throwable
4. Compiler Error because base class exception is caught before derived clas

2. find errors if any otherwise write output:  
class Ex



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2. find errors if any otherwise write output:

```
class Ex
{
    Public static void main(String args[])
    {
        Date d=new date();
        System.out.println("date is:"+d);
    }
}
```

Answers

1. it will print the whole current date and time  
2. it will print the current date  
3. error:date class and constructor not found  
4. error:can not print object d

3. Which of the following is a valid syntax to synchronize the HashMap?

4. Which component is responsible to optimize bytecode to machine code?



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- Feedback >
- Messages
- Recorded Sessions
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- Profile
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```
{  
    Public static void main(String args[]){  
        Date d=new date();  
        System.out.println("date is:"+d);  
    }  
}
```

3. Which of the following is a valid syntax to synchronize the HashMap?

**Answers**

1. Map m = hashMap.synchronizeMap();
2. HashMap map =hashMap.synchronizeMap();
3. Map m1 = Collections.synchronizedMap(hashMap);
4. Map m2 = Collection.synchronizeMap(hashMap);

4. Which component is responsible to optimize bytecode to machine code?

5. What will be the output of the following Java program?

```
class X
```

The screenshot shows a Linux desktop environment with a dark theme. A window titled "Sunbeam" is open in the "Brave Web Browser". The browser's address bar shows a screenshot URL. The Sunbeam interface includes a sidebar with links like Dashboard, Quiz, Feedback, Messages, Recorded Sessions, Online Sessions, Profile, and Help. The main content area displays a Java code snippet and five multiple-choice questions related to Java programming. At the bottom, a dock bar contains icons for various applications, including a text editor, a browser, and system utilities. The system tray at the top right shows battery level (54%), signal strength, and other system status indicators.

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- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

```
{  
    Public static void main(String args[]){  
        Date d=new date();  
        System.out.println("date is:"+d);  
    }  
}
```

3. Which of the following is a valid syntax to synchronize the HashMap?

4. Which component is responsible to optimize bytecode to machine code?

**Answers**

1. JVM  
2. JDK  
3. JIT  
4. JRE

5. What will be the output of the following Java program?

```
class X
```

The dock bar contains icons for a text editor, a browser, a terminal, a gear (settings), a file, an SSD, a recycle bin, and a grid of dots.

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5. What will be the output of the following Java program?

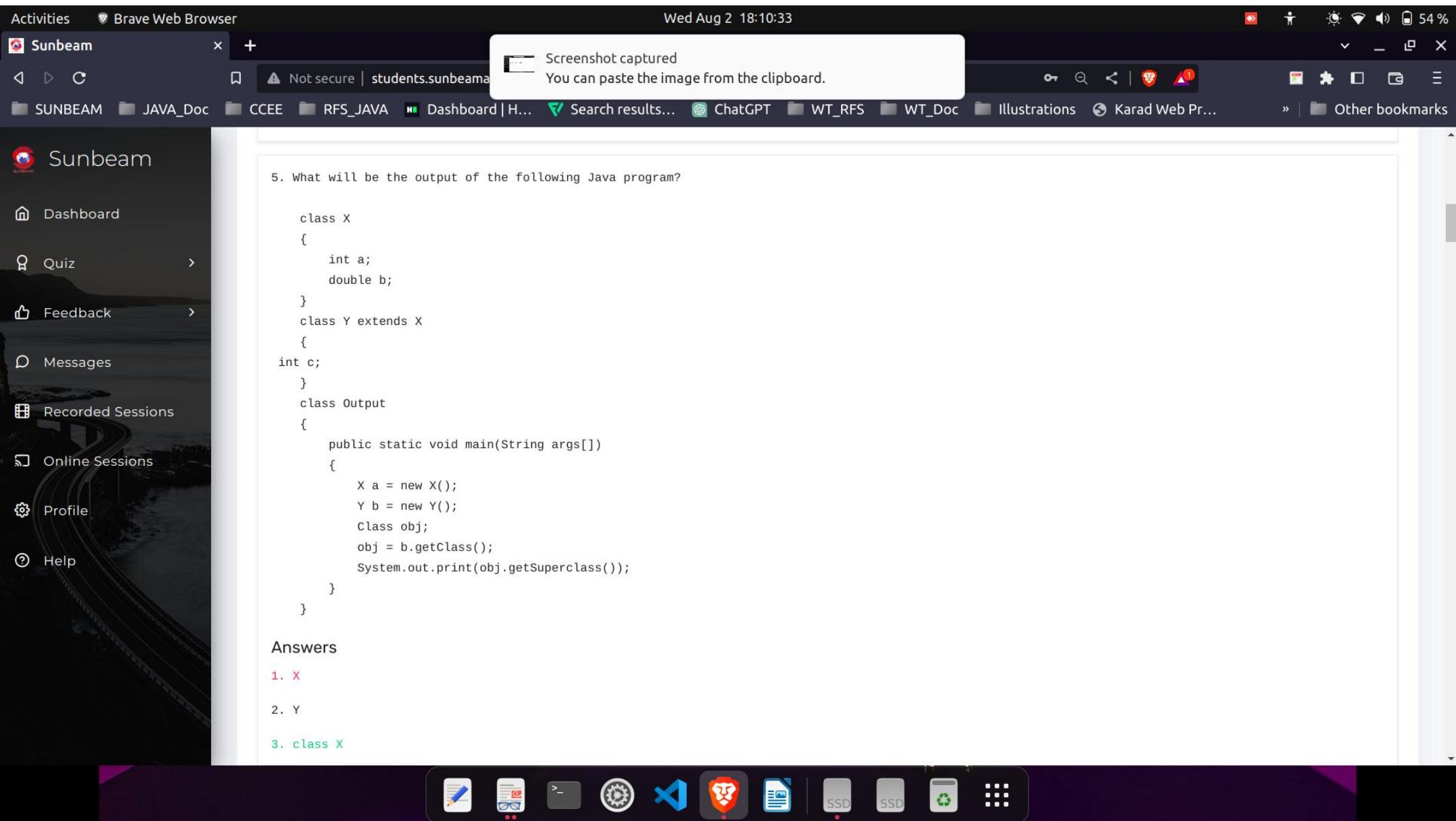
```
class X
{
    int a;
    double b;
}
class Y extends X
{
    int c;
}
class Output
{
    public static void main(String args[])
    {
        X a = new X();
        Y b = new Y();
        Class obj;
        obj = b.getClass();
        System.out.print(obj.getSuperclass());
    }
}
```

**Answers**

1. X

2. Y

3. class X



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X a = new X();  
Y b = new Y();  
Class obj;  
obj = b.getClass();  
System.out.print(obj.getSuperclass());  
}  
}

6. What happens if you call deleteRow() on a ResultSet object?

Answers

1. The row you are positioned on is deleted from the ResultSet, but not from the database
2. The row you are positioned on is deleted from the ResultSet and from the database
3. The result depends on whether the property synchronizeWithDataSource is set to true or false
4. You will get a compile error: the method does not exist because you cannot delete rows from a ResultSet

7. Which option is false about the final keyword?

8. Which of the following is/are true about packages in Java?  
1) Every class is part of some package.  
2) All classes in a file are part of the same package.

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- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

X a = new X();  
Y b = new Y();  
Class obj;  
obj = b.getClass();  
System.out.print(obj.getSuperclass());  
}  
}

6. What happens if you call deleteRow() on a ResultSet object?

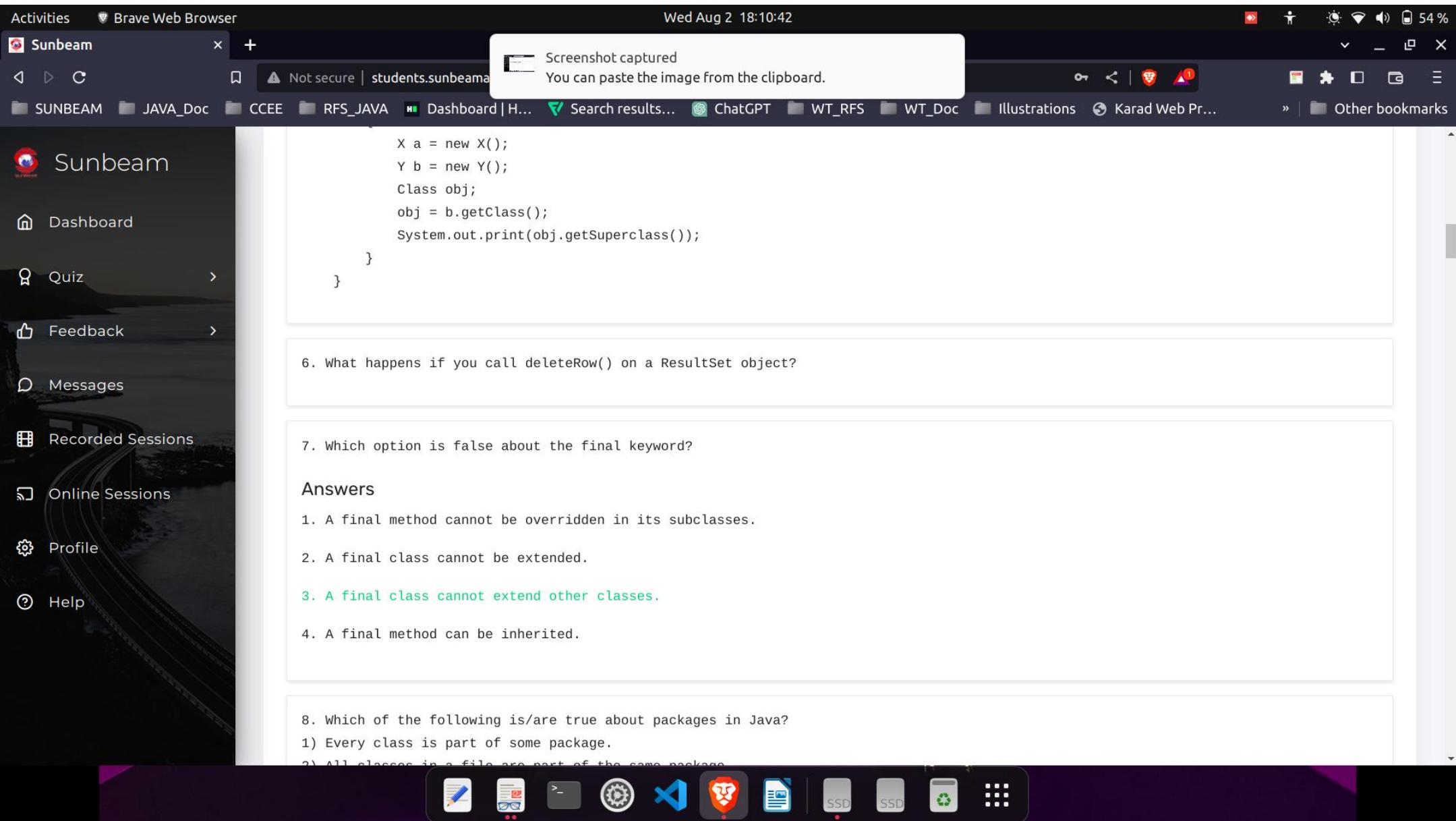
7. Which option is false about the final keyword?

**Answers**

1. A final method cannot be overridden in its subclasses.
2. A final class cannot be extended.
3. **A final class cannot extend other classes.**
4. A final method can be inherited.

8. Which of the following is/are true about packages in Java?

- 1) Every class is part of some package.
- 2) All classes in a file are part of the same package.



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6. What happens if you call deleteRow() on a ResultSet object?

7. Which option is false about the final keyword?

8. Which of the following is/are true about packages in Java?  
1) Every class is part of some package.  
2) All classes in a file are part of the same package.  
3) If no package is specified, the classes in the file go into a special unnamed package  
4) If no package is specified, a new package is created with folder name of class and the class is put in this package.

Answers

1. Only 1, 2 and 3  
2. Only 1, 2 and 4  
3. Only 4  
4. Only 1 and 3

9. Which of the following declarations are invalid?

```
class Test3 {
```

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9. Which of the following declarations are invalid?

```
class Test3 {  
    public  
        static void main(String[] args)  
    {  
        int[][] arr1 = new int[2][3]; // Line 1  
        int[][] arr2 = new int[2][]; // line 2  
        int[][] arr3 = new int[][][]; // line 3  
        int[][] arr4 = new int[][], [2]; // line 4  
    }  
}
```

Answers

1. All
2. line 1, 3, 4
3. line 3, 4
4. line 2, 3, 4

10. The return type of execute(String query) is?

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```
public
    static void main(String[] args)
    {
        int[][] arr1 = new int[2][3]; // Line 1
        int[][] arr2 = new int[2][]; // line 2
        int[][] arr3 = new int[][]; // line 3
        int[][] arr4 = new int[][2]; // line 4
    }
}
```

10. The return type of execute(String query) is?

Answers

1. int
2. ResultSet
3. boolean
4. void

11. What gets printed when the following code is compiled and run with the following command -  
java test 2 Select the one correct answer.

```
public class test {
    public static void main(String args[]) {
```



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11. What gets printed when the following code is compiled and run with the following command -  
java test 2 Select the one correct answer.

```
public class test {  
    public static void main(String args[]) {  
        Integer intObj=Integer.valueOf(args[args.length-1]);  
        int i = intObj.intValue();  
  
        if(args.length > 1)  
            System.out.println(i);  
        if(args.length > 0)  
            System.out.println(i - 1);  
        else  
            System.out.println(i - 2);  
    }  
}
```

Answers

1. test
2. test -1
3. 0
4. 1

12. Which of the following is true about the anonymous inner class?



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- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

```
Integer intObj=Integer.valueOf(args[args.length-1]);
int i = intObj.intValue();

if(args.length > 1)
    System.out.println(i);
if(args.length > 0)
    System.out.println(i - 1);
else
    System.out.println(i - 2);
}
```

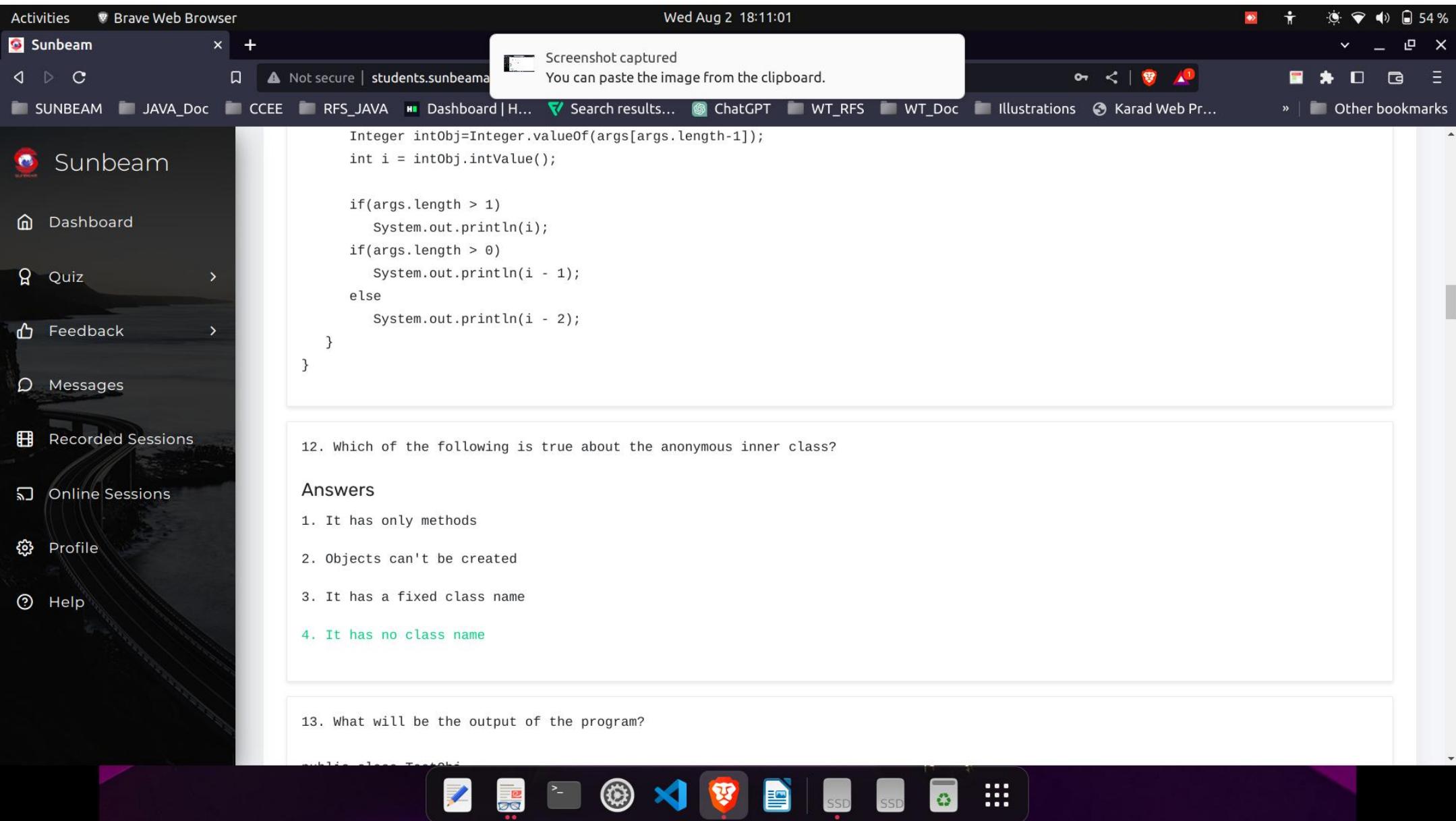
12. Which of the following is true about the anonymous inner class?

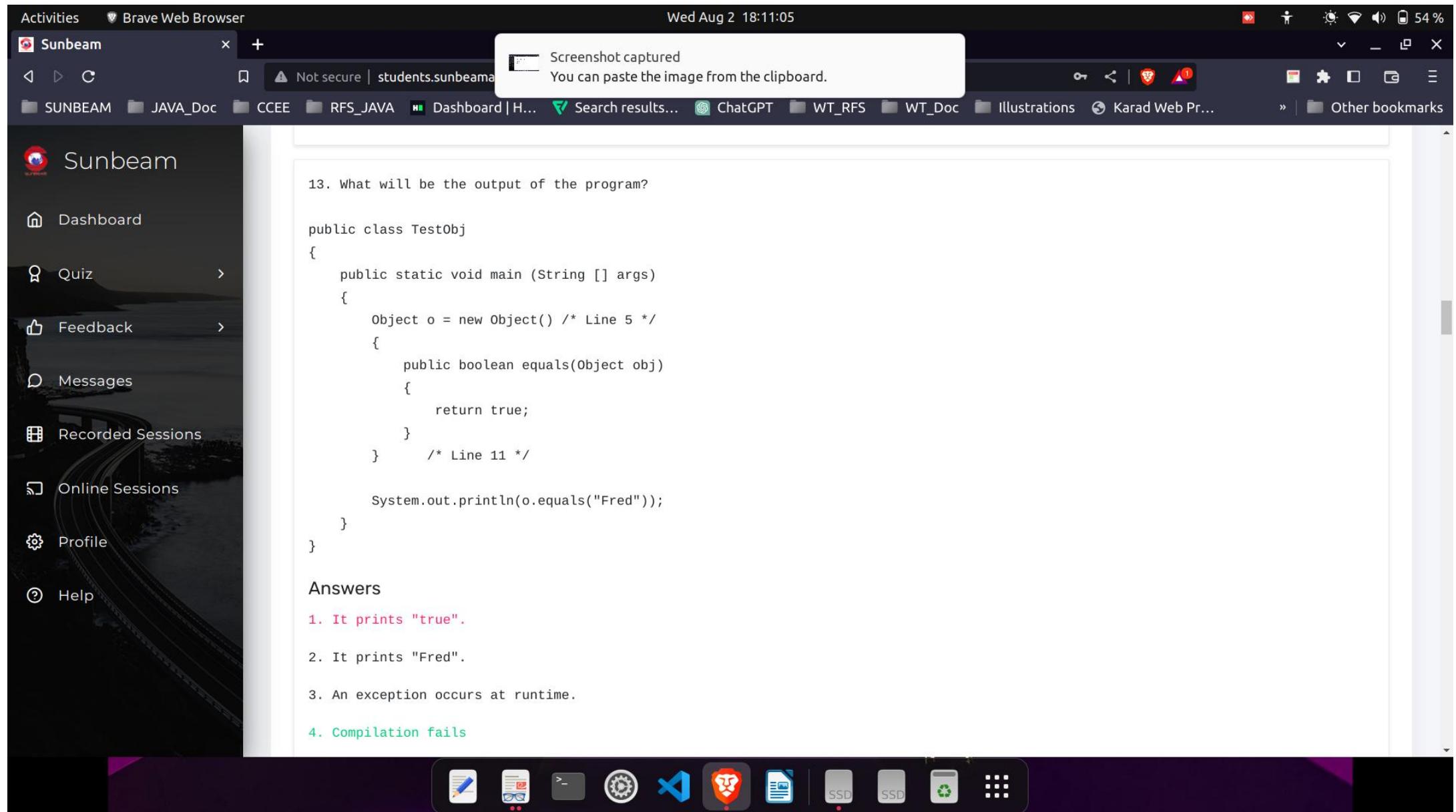
**Answers**

1. It has only methods
2. Objects can't be created
3. It has a fixed class name
4. **It has no class name**

13. What will be the output of the program?

public class Test{}





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Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

```
System.out.println(o.equals("Fred"));
}
```

14. What two statements are true about the result obtained from calling Math.random()?

1. The result is less than 0.0.
2. The result is greater than or equal to 0.0..
3. The result is less than 1.0.
4. The result is greater than 1.0.
5. The result is greater than or equal to 1.0.

**Answers**

1. 1 and 2

2. 2 and 3

3. 3 and 4

4. 4 and 5

15. What do you mean by chained exceptions in Java?

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1. The result is less than 0.0.
2. The result is greater than or equal to 0.0..
3. The result is less than 1.0.
4. The result is greater than 1.0.
5. The result is greater than or equal to 1.0.

15. What do you mean by chained exceptions in Java?

Answers

1. Exceptions occurred by the VirtualMachineError
2. An exception caused by other exceptions
3. Exceptions occur in chains with discarding the debugging information
4. None of the above

16. The built-in base class in Java, which is used to handle all exceptions is

17. What is the difference between TYPE\_SCROLL\_INSENSITIVE, and TYPE\_SCROLL\_SENSITIVE?



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- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
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14. What two statements are true about the result obtained from calling Math.random()?

1. The result is less than 0.0.
2. The result is greater than or equal to 0.0..
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4. The result is greater than 1.0.
5. The result is greater than or equal to 1.0.

15. What do you mean by chained exceptions in Java?

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**Answers**

1. Raise
2. Exception
3. Error
4. **Throwable**

17. What is the difference between TYPE\_SCROLL\_INSENSITIVE, and TYPE\_SCROLL\_SENSITIVE?



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- Recorded Sessions
- Online Sessions
- Profile
- Help

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17. What is the difference between TYPE\_SCROLL\_INSENSITIVE, and TYPE\_SCROLL\_SENSITIVE?

**Answers**

- Both types of result sets will make changes visible if they are closed and then reopened.
- A result set that is TYPE\_SCROLL\_INSENSITIVE does not reflect changes made while it is still open and one that is TYPE\_SCROLL\_SENSITIVE does.
- You will get a scrollable ResultSet object if you specify one of these ResultSet constants.
- A result set that is TYPE\_SCROLL\_INSENSITIVE makes the result set read only while one that is TYPE\_SCROLL\_SENSITIVE does not.

18. What will be the output of the program?

```
public class X
{
    public static void main(String [] args)
    {
        try
```

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```
public class X
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    public static void main(String [] args)
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        try
```

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- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

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```
public class X
{
    public static void main(String [] args)
    {
        try
        {
            badMethod();
            System.out.print("A");
        }
        catch (RuntimeException ex) /* Line 10 */
        {
            System.out.print("B");
        }
        catch (Exception ex1)
        {
            System.out.print("C");
        }
        finally
        {
            System.out.print("D");
        }
        System.out.print("E");
    }

    public static void badMethod()
    {
        throw new RuntimeException();
    }
}
```

Answers

1. BD
2. BCD
3. BDE
4. BCDE

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Bottom dock icons: Document, Glasses, Back/Forward, Gear, VS Code, Brave, File, SSD, Recycle Bin, Grid.

Activities    Brave Web Browser    Wed Aug 2 18:11:42    54 %

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Dashboard

Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

}

}

19. Which statement is correct?

Answers

1. `ResultSet rs = stmt.selectQuery("SELECT COF_NAME, PRICE FROM COFFEES");`
2. `ResultSet rs = stmt.executeSelect("SELECT COF_NAME, PRICE FROM COFFEES");`
3. `ResultSet rs = stmt.runQuery("SELECT COF_NAME, PRICE FROM COFFEES");`
4. `ResultSet rs = stmt.executeQuery("SELECT COF_NAME, PRICE FROM COFFEES");`

20. Which collection class allows you to access its elements by associating a key with an element's value, and provides synchronization

21. What will be the output of the program?

```
import java.util.*;
class H
{
    public static void main (String[] args)
    {
```

Brave Web Browser icon bar:

- Notepad icon
- Document icon
- Back arrow icon
- Gears icon
- VS Code icon
- Brave browser icon
- File icon
- SSD icon
- Recycle bin icon
- Grid icon

Activities    Brave Web Browser    Wed Aug 2 18:11:46

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Dashboard

Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

19. Which statement is correct?

20. Which collection class allows you to access its elements by associating a key with an element's value, and provides synchronization?

Answers

1. java.util.SortedMap

2. java.util.TreeMap

3. java.util.TreeSet

4. **java.util.Hashtable**

21. What will be the output of the program?

```
import java.util.*;
class H
{
    public static void main (String[] args)
    {
        Object x = new Vector().elements();
        System.out.print((x instanceof Enumeration)+",");
        System.out.print((x instanceof Iterator)+",");
        System.out.print((x instanceof ListIterator)+",");
    }
}
```

SSD    SSD    Recycle Bin    Grid View

Activities    Brave Web Browser    Wed Aug 2 18:11:50

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Dashboard

Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

20. Which collection class allows you to access its elements by associating a key with an element's value, and provides synchronization?

21. What will be the output of the program?

```
import java.util.*;
class H
{
    public static void main (String[] args)
    {
        Object x = new Vector().elements();
        System.out.print((x instanceof Enumeration)+",");
        System.out.print((x instanceof Iterator)+",");
        System.out.print(x instanceof ListIterator);
    }
}
```

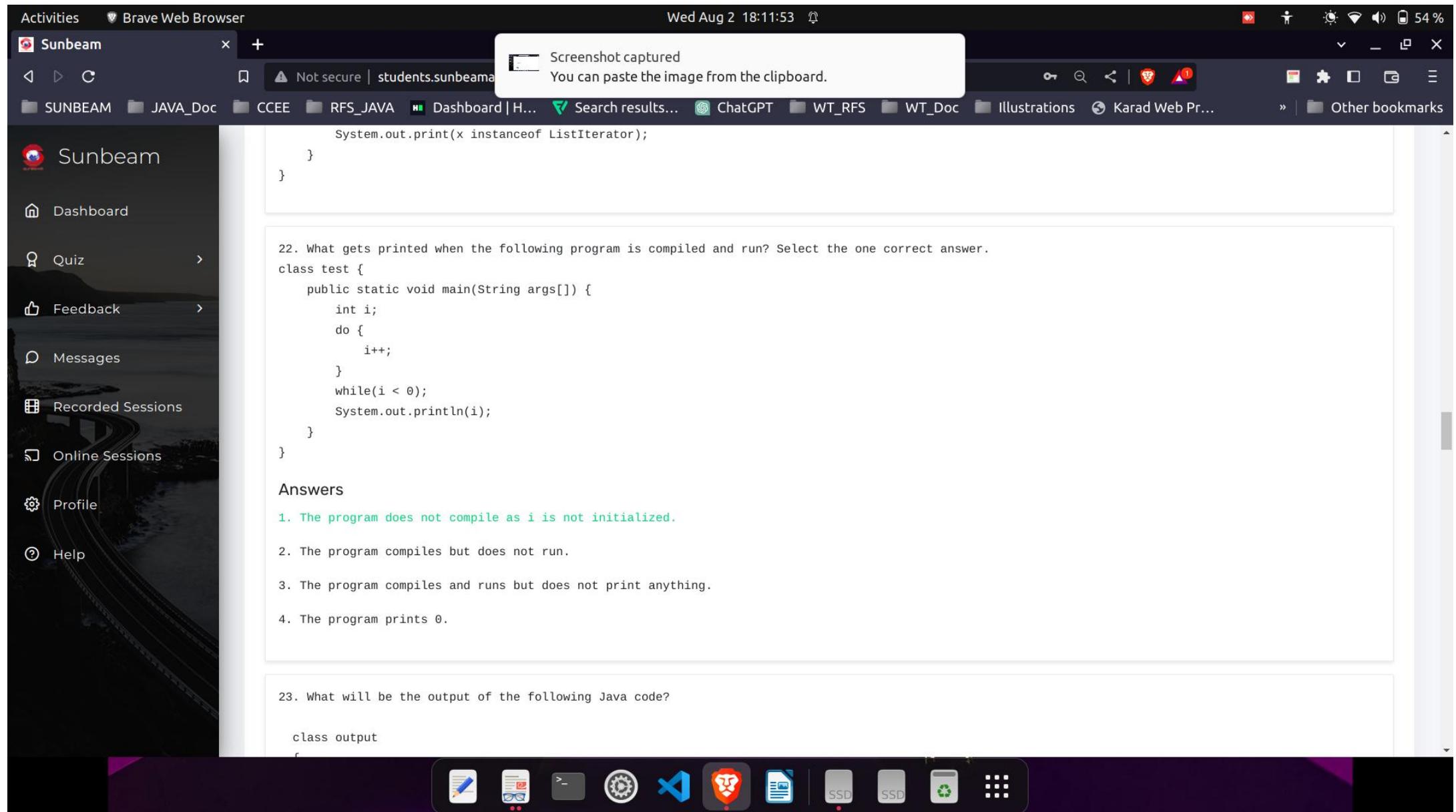
Answers

- Prints: false, false, false
- Prints: false, false, true
- Prints: false, true, false
- Prints: true, false, false

22. Which statement describes the following scenario? Select the correct answer.



The image shows a screenshot of a Linux desktop environment, likely Ubuntu, with the Sunbeam application open in a web browser window. The desktop dock at the bottom contains icons for various applications, including a text editor, a file manager, a terminal, a code editor (VS Code), a browser (Brave), a file viewer, and system status indicators like SSD and battery level. A tooltip from the browser indicates it is a screenshot capture.



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- Dashboard
- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

23. What will be the output of the following Java code?

```
class output
{
    public static void main(String args[])
    {
        StringBuffer sb=new StringBuffer("Hello");
        sb.replace(1,3,"Java");
        System.out.println(sb);
    }
}
```

**Answers**

1. Hello java
2. Hellojava
3. **HJava**
4. Hjava

24. What will be the output of the program?



The dock bar includes icons for a text editor, file manager, terminal, browser, and system status indicators like battery and signal strength.

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- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

24. What will be the output of the program?

```
public class Test
{
    private static int[] x;
    public static void main(String[] args)
    {
        System.out.println(x[0]);
    }
}
```

Answers

1. 0
2. null
3. Compile Error
4. NullPointerException at runtime

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- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
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24. What will be the output of the program?

```
public class Test
{
    private static int[] x;
    public static void main(String[] args)
    {
        System.out.println(x[0]);
    }
}
```

Answers

1. 0
2. null
3. Compile Error
4. NullPointerException at runtime

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- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

24. What will be the output of the program?

```
public class Test
{
    private static int[] x;
    public static void main(String[] args)
    {
        System.out.println(x[0]);
    }
}
```

Answers

1. 0
2. null
3. Compile Error
4. NullPointerException at runtime

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25. What will be the output of the following Java program?

```
import java.lang.reflect.*;
class Additional_packages
{
    public static void main(String args[])
    {
        try
        {
            Class c = Class.forName("java.awt.Dimension");
            Constructor constructors[] = c.getConstructors();
            for (int i = 0; i < constructors.length; i++)
                System.out.println(constructors[i]);
        }
        catch (Exception e)
        {
            System.out.print("Exception");
        }
    }
}
```

**Answers**

1. Program prints all the constructors of 'java.awt.Dimension' package
2. Program prints all the possible constructors of class 'Class'
3. Program prints "Exception"
4. Runtime Error

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- Dashboard
- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

System.out.print("Exception");  
}  
}  
}

26. What will be the output of the program?

```
public class Test
{
    private static float[] f = new float[2];
    public static void main (String[] args)
    {
        System.out.println("f[0] = " + f[0]);
    }
}
```

Answers

1. `f[0] = 0`
2. `f[0] = 0.0`
3. Compile Error
4. Runtime Exception

27. What will be the output of the following Java code?

```
class A
```

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Dashboard

Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

```
Class A
{
    int i;
    void display()
    {
        System.out.println(i);
    }
}
class B extends A
{
    int j;
    void display()
    {
        System.out.println(j);
    }
}
class method_overriding
{
    public static void main(String args[])
    {
        B obj = new B();
        obj.i=1;
        obj.j=2;
        obj.display();
    }
}
```

Answers

1. 0
2. 1
3. 2
4. Compilation Error

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Bottom dock icons: Document, Glasses, Back, Gear, VS Code, File, SSD, Recycle Bin, Grid.

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Dashboard

Quiz

Feedback

Messages

Recorded Sessions

Online Sessions

Profile

Help

28. What is the Output of following Java Program?

```
import java.util.ArrayList;

class Demo {
    public void show()
    {
        ArrayList<String> list = new ArrayList<String>();
        list.add("Sunbeam"); // line 6
        list.add("Pune");
        System.out.print(list.getFirst()); // line 8
    }
} public class Main {
public static void main(String[] args)
{
    Demo demo = new Demo();
    demo.show();
}
}
```

Answers

1. Sunbeam
2. Compilation Error
3. Runtime Error
4. Pune

29. Which of the following describes the correct sequence of the steps involved in making a connection with a database.

1. Loading the driver

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Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

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```
list.add("Pune");
        System.out.print(list.getFirst()); // line 8
    }
} public class Main {
public static void main(String[] args)
{
    Demo demo = new Demo();
    demo.show();
}
}
```

29. Which of the following describes the correct sequence of the steps involved in making a connection with a database.

1. Loading the driver
2. Process the results.
3. Making the connection with the database.
4. Executing the SQL statements.

Answers

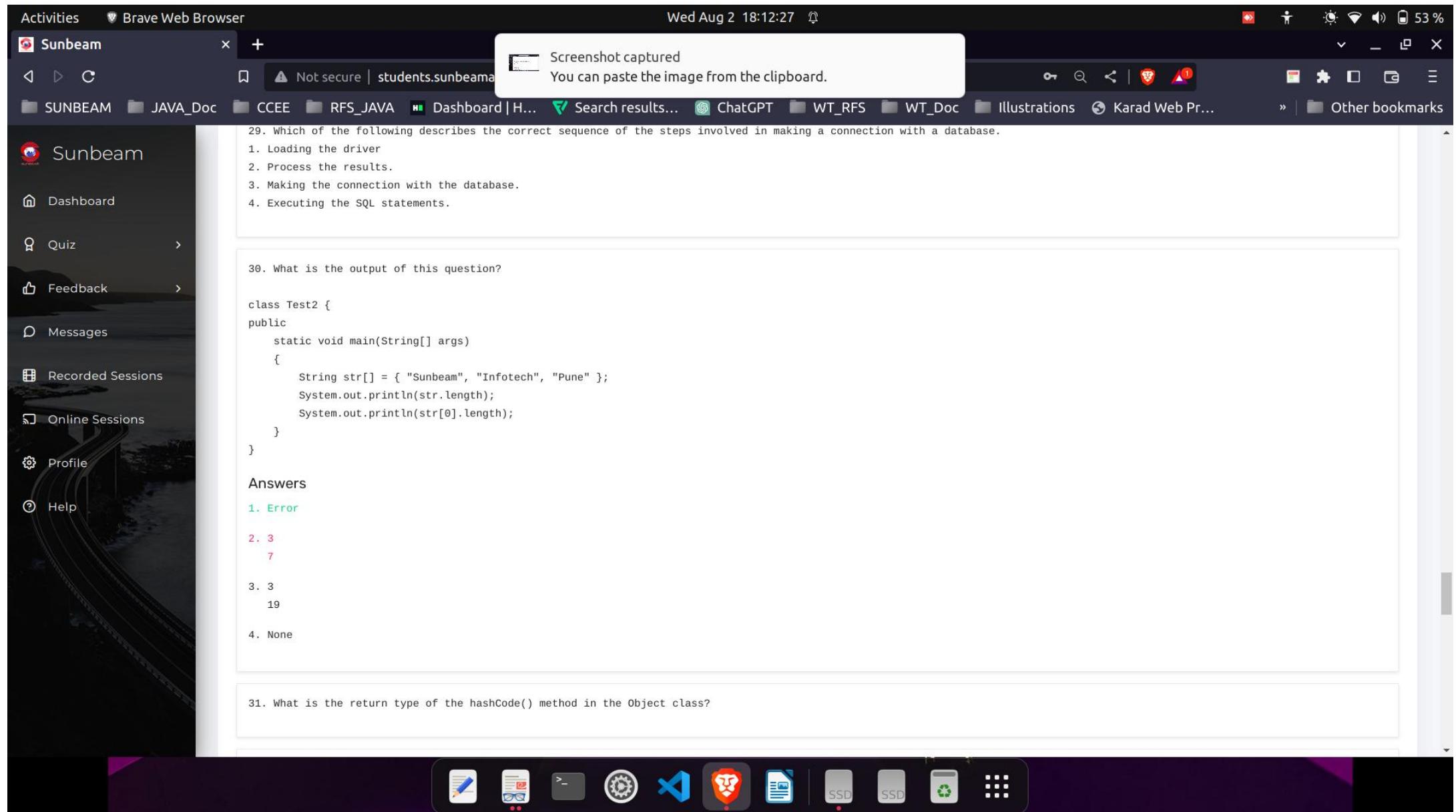
1. 1,2,3,4
2. 1,3,4,2
3. 2,1,3,4
4. 4,1,2,3

30. What is the output of this question?

```
class Test2 {
public
    static void main(String[] args)
{
    String str[] = { "Sunbeam", "Infotech", "Pune" };
    System.out.println(str[0] + " " + str[1] + " " + str[2]);
}
```



The screenshot shows a Linux desktop environment with a dark theme. A window titled 'Sunbeam' is open in the 'Brave Web Browser'. The browser's address bar shows a URL starting with 'students.sunbeam...'. A tooltip message 'Screenshot captured' with the sub-instruction 'You can paste the image from the clipboard.' is visible. The left sidebar of the Sunbeam application lists various sections like Dashboard, Quiz, Feedback, etc. The bottom dock contains icons for various applications including a text editor, file manager, terminal, and system monitors for SSD usage.



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Sunbeam

Dashboard

Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

String str[] = { "Sunbeam", "Infotech", "Pune" };  
System.out.println(str.length);  
System.out.println(str[0].length);  
}

31. What is the return type of the hashCode() method in the Object class?

Answers

1. Object  
2. int  
3. long  
4. void

32. Which package we need to import to work with JDBC?

33. void start() {  
    A a = new A();  
    B b = new B();  
    a.s(b);  
    b = null; /\* Line 5 \*/  
    a = null; /\* Line 6 \*/  
    System.out.println("start completed"); /\* Line 7 \*/  
}

When is the B object, created in line 3, eligible for garbage collection?

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- Dashboard
- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

String str[] = { "Sunbeam", "Infotech", "Pune" };  
System.out.println(str.length);  
System.out.println(str[0].length);  
}

31. What is the return type of the hashCode() method in the Object class?

32. Which package we need to import to work with JDBC?

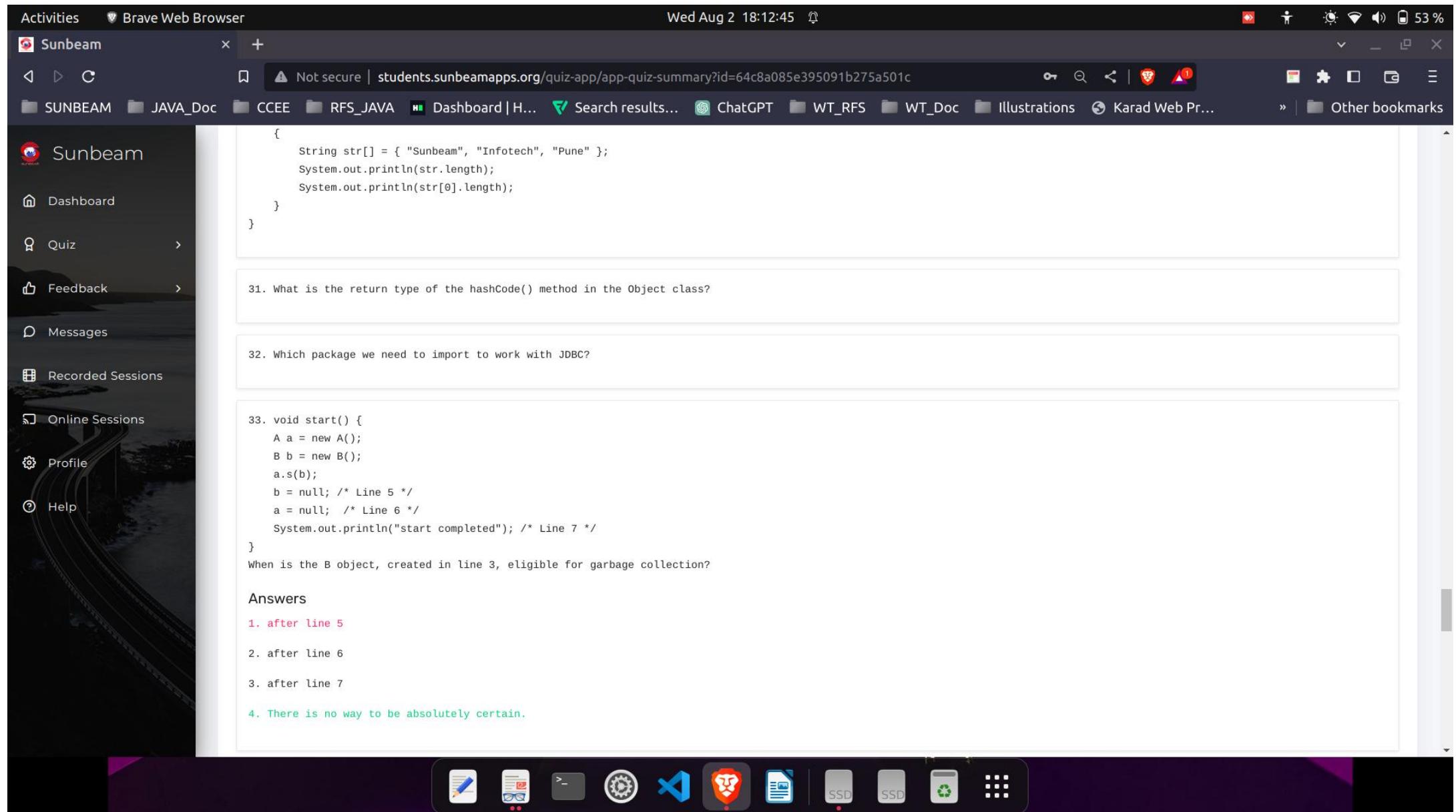
**Answers**

1. import java.sql.\* ;
2. import javax.sql.\* ;
3. import java.jdbc.sql.\* ;
4. import java.jdbc.\* ;

33. void start() {  
    A a = new A();  
    B b = new B();  
    a.s(b);  
    b = null; /\* Line 5 \*/  
    a = null; /\* Line 6 \*/  
    System.out.println("start completed"); /\* Line 7 \*/  
}

When is the B object, created in line 3, eligible for garbage collection?

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Dashboard

Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

32. Which package we need to import to work with JDBC?

33. void start() {  
    A a = new A();  
    B b = new B();  
    a.s(b);  
    b = null; /\* Line 5 \*/  
    a = null; /\* Line 6 \*/  
    System.out.println("start completed"); /\* Line 7 \*/  
}

When is the B object, created in line 3, eligible for garbage collection?

34. Which of these is an correct way making a list that is upper bounded by class Number?

Answers

1. List<? extends Number>
2. List<extends ? Number>
3. List(? extends Number)
4. List(? UpperBounds Number)

35. What will be the output of the following Java program?

```
interface calculate
{
    void cal(int item);
}
class display implements calculate
{
```

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35. What will be the output of the following Java program?

```
interface calculate
{
    void cal(int item);
}
class display implements calculate
{
    int x;
    public void cal(int item)
    {
        x = item * item;
    }
}
class interfaces
{
    public static void main(String args[])
    {
        display arr = new display();
        arr.x = 0;
        arr.cal(2);
        System.out.print(arr.x);
    }
}
```

Answers

1. 0
2. 2
3. 4
4. None of the mentioned

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- Back arrow icon
- Gears icon
- VS Code icon
- Brave browser icon
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- SSD icon
- SSD icon
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Dashboard

Quiz

Feedback

Messages

Recorded Sessions

Online Sessions

Profile

Help

36. What will be the output of the following Java program?

```
class output
{
    public static void main(String args[])
    {
        StringBuffer c = new StringBuffer("Hello");
        c.delete(0,2);
        System.out.println(c);
    }
}
```

Answers

1. He
2. Hel
3. lo
4. llo

37. Which one is the correct syntax for creating a Statement?

38. Which of the following is correct about CallableStatement?

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```
class output
{
    public static void main(String args[])
    {
        StringBuffer c = new StringBuffer("Hello");
        c.delete(0,2);
        System.out.println(c);
    }
}
```

37. Which one is the correct syntax for creating a Statement?

Answers

1. Statement stmt = connection.createStatement();
2. Statement stmt = connection.prepareStatement();
3. Statement stmt = connection.createStatement();
4. none of these

38. Which of the following is correct about CallableStatement?

39. What is the result of the following program?

```
public static synchronized void main(String[] args) throws
InterruptedException {
```



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Dashboard

Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

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```
{  
    StringBuffer c = new StringBuffer("Hello");  
    c.delete(0,2);  
    System.out.println(c);  
}
```

37. Which one is the correct syntax for creating a Statement?

38. Which of the following is correct about CallableStatement?

Answers

1. Used when you want to access the database stored procedures.  
2. The CallableStatement interface can accept runtime input parameters.  
3. Both of the above.  
4. None of the above.

39. What is the result of the following program?

```
public static synchronized void main(String[] args) throws  
InterruptedException {  
    Thread f = new Thread();  
    f.start();  
    System.out.print("A");  
    f.wait(1000);  
    System.out.print("B");  
}
```

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- Dashboard
- Quiz >
- Feedback >
- Messages
- Recorded Sessions
- Online Sessions
- Profile
- Help

37. Which one is the correct syntax for creating a Statement?

38. Which of the following is correct about CallableStatement?

39. What is the result of the following program?

```
public static synchronized void main(String[] args) throws  
InterruptedException {  
    Thread f = new Thread();  
    f.start();  
    System.out.print("A");  
    f.wait(1000);  
    System.out.print("B");  
}
```

**Answers**

1. It prints A and B with a 1000 seconds delay between them
2. It only prints A and exits
3. It only prints B and exits
4. A will be printed, and then an exception is thrown.

40. What is the output of the following program?

```
import java.util.*;
```

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Quiz >

Feedback >

Messages

Recorded Sessions

Online Sessions

Profile

Help

40. What is the output of the following program?

```
import java.util.*;  
  
public class priorityQueue  
{  
    public static void main(String[] args)  
    {  
        PriorityQueue<Integer> queue =  
            new PriorityQueue<>();  
        queue.add(11);  
        queue.add(10);  
        queue.add(22);  
        queue.add(5);  
        queue.add(12);  
        queue.add(2);  
  
        while (queue.isEmpty() == false)  
            System.out.printf("%d ", queue.remove());  
  
        System.out.println("\n");  
    }  
}
```

Answers

1. 11 10 22 5 12 2

2. 2 12 5 22 10 11

3. 2 5 10 11 12 22

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