

```

class ParentClass extends Exception {
}

class ChildClass extends ParentClass {
}

public class ExceptionDemo {
    public static void main(String[] args) {
        try {
            throw new ChildClass();
        } catch (ParentClass p) {
            System.out.println("Caught ParentClass exception");
        } catch (ChildClass c) {
            System.out.println("Caught ChildClass exception");
        }
    }
}

```

**Answer :Caught ChildClass exception**

2.

```

class Atom {
    Atom() {
        System.out.print("atom");
    }
}

class Rock {
    Rock(String type) {
        System.out.print(type);
    }
}

public class Mountain extends Rock {
    Mountain() {
        super("granite");
        new Rock("granite ");
    }

    public static void main(String[] a) {
        new Mountain();
    }
}

```

**Answer:atom granite atom granite**

```

3.10. interface Jumper {
    public void jump();
}

```

```
}
```

```
20. class Animal {  
}
```

```
30. class Dog extends Animal {  
    Tail tail;  
}
```

```
40. class Beagle extends Dog implements Jumper {  
    public void jump() {}  
}
```

```
50. class Cat implements Jumper {  
    public void jump() {}  
}
```

- Cat is-a Jumper
- Dog is-a Animal
- Beagle has-a Tail

```
4.  
public static void main(String[] args) {  
    int pointer = 0;  
    int value = 1;  
    while (true) {  
        ++pointer;  
        if (pointer % 2 == 0)  
            continue;  
        else if (pointer % 5 == 0)  
            break;  
        value *=3;  
        System.out.println(value);  
    }  
}
```

**Output: 3 9**

```
5.import java.util.ArrayList;  
import java.util.List;
```

```

public class Example {
    public static void main(String[] args) {
        List<Integer> list = new ArrayList<>();

        int[] array = {8, 9};

        list.add(array[0]);
        list.add(array[1]);

        System.out.println(list);
    }
}

```

**Answer: 8,9**

```

6.import java.util.ArrayList;
import java.util.List;

```

```

public class Example {
    public static void main(String[] args) {
        List<Integer> list = new ArrayList<>();
        int[] array = {0, 0, 0};

        list.add(array[0]);
        list.add(array[2]);
        list.set(1, array[1]);
        list.remove(0);

        System.out.println(list);
    }
}

```

output:[0]

```

7. public class Breaker {
    static String o = "";

    public static void main(String[] args) {
        z:
        for (int x = 2; x < 10; x++) {
            if (x == 4) continue;

            if (x == 6) break z;

            o = o + x;
        }

        System.out.println(o);
    }
}

```

Answer:235

8. Which type of code is really helpful in selecting two or more items in a list box or text area?  
Note that all the options of the dropdown are in td tags

a. `List<WebElement> options = select.findElements (By.tagName("td"));` `Action multipleSelect = builder`

`.keyDown (Keys.CONTROL)`

`.click(options.get(2))`

`click(options.get(4))`

`click (options.get(6))`

`.build();`

`multipleSelect.perform();`

option b:

`List<WebElement> options = select.findElement(By.tagName("td"));`

`Action multipleSelect = builder .keyDown (Keys.CONTROL)`

`click (options.get(2))`

(D)

```
Select dropdown = new Select (driver.findElements (By.tagName("td")));  
dropdown.selectByVisibleText("item1");
```

```
dropdown.selectByVisibleText("item2"); dropdown.selectByVisibleText("item3");
```

```
Answer: List<WebElement> options = select.findElements(By.tagName("td"));  
Action multipleSelect = builder  
    .keyDown(Keys.CONTROL)  
    .click(options.get(2))  
    .click(options.get(4))  
    .click(options.get(6))  
    .build();  
multipleSelect.perform();
```

9. Which of the options can be added in line 1 to remove the error from the following code?

```
System.out.println("Car speeding");  
System.out.println("Car speeding");
```

```
public class Tester implements Car, Bike {
```

```
    @Override
```

```
    public void accelerate() {
```

```
        Car.super.accelerate(); // Option 1
```

```
        Bike.super.accelerate(); // Option 2
```

```
    }
```

```
    // Other code...
```

```
}
```

10.

```
interface Fish {}
```

```
class Perch implements Fish {}
```

```
class Walleye extends Perch {} // Fixed the typo here
```

```
class Bluegill {}
```

```
public class Fisherman {
```

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

```
        Fish f = new Walleye();
```

```
        Walleye w = new Walleye();
```

```
        Bluegill b = new Bluegill();
```

```
        if (f instanceof Perch)
```

```
            System.out.print("f-p ");
```

```

        if (w instanceof Fish)
            System.out.print("w-f ");
        if (b instanceof Fish)
            System.out.print("b-f ");
    }
}

```

Answer: **f-p w-f**

```

11. public class Student {
    public String sName; // Assuming grade is also a member of the Student class
    public String grade;

    public static void main(String[] args) {
        Student S = new Student();
        System.out.println "[" + S.sName + ":" + S.grade + "]";
    }
}

```

Answer: **[null:null]**

```

12. int[] array = {6, 9, 8};
    List<Integer> list = new ArrayList<>();
    list.add(array[0]); // Adding 6 to the list
    list.add(array[2]); // Adding 8 to the list
    list.set(1, array[1]);
    list.remove(0); //
    System.out.println(list);

```

**Output:9**

**13**

```

13. public static void main(String[] args) {
    int num1 = 0;
    int num2 = 0;
    for (int var = 0; var < 5; var++) {
        if ((++num1 > 2) && (++num2 > 2)) {
            num1++;
        }

    }
    System.out.println(num1 + " and " + num2);
}

```

**Output:6 &3**

14

```
class Phase2TestNg {  
    public static boolean funcA(int a) {  
        boolean b = (a==10)?true:false;  
        System.out.println(b);  
        return b;  
    }  
    public static void main(String args[]) {  
        if(funcA(10) && funcA(5))  
            System.out.println("pass");  
    }  
}
```

Output:

True

Flase

15.abstract class Demo{

```
    public char alpha;  
    Demo(){  
        alpha='D';  
    }  
}  
  
public class Tester extends Demo{  
    final public void setAlpha(char alpha) {  
        this.alpha=alpha;  
    }  
  
    final public void getAlpha() {  
        System.out.println("alpha = "+alpha);  
    }  
  
    public static void main(String[] args) {  
        Tester obj=new Tester();  
        obj.setAlpha('A');  
        obj.getAlpha();  
    }  
}
```

Output:

alpha = A

16. driver.manage().timeouts().setScriptTimeout(-10, SECONDS);.

The correct answer is: The script will be allowed to run indefinitely.

17. Class TestQuestion {

```
String s1 = "overloading main String s[]";
String s2 = "overloading main int s[]";
public static void main(String args[]) {
    System.out.println("inside main 1");
}
public static void main(int args[]) {
    System.out.println("inside main 2");
}
}
```

Output: inside main1

```
18. public static void main(String[] args) {
    int[] arr = {10, 0};
    int i = 0;
    try {
        int answer = arr[i] / arr[i + 1];
    } catch (Exception e) {
        System.out.println("Unknown issues.");
    } catch (ArithmeticException ae) {
        System.out.println("Invalid divisor.");
    }
}
```

output: A compilation error occurs

19.

```
class Thingy {Meter m = new Meter();}
class Component { void go() { System.out.print("c"); }
class Meter extends Component { void go() {System.out.print("m"); }}
```

```
class DeluxeThingy extends Thingy {
    public static void main(String[] args) {
        DeluxeThingy dt = new DeluxeThingy();
        dt.m.go();
        Thingy t = new DeluxeThingy();
        t.m.go();
    }
}
```



Given above code which of the below statements are true?

**The output is mm**

the output is mc

component is-a Meter

component has-a Meter

DeluxeThingy is-a component

**DeluxeThingy has-a component**

```
20.class ParentClass extends Exception { };
class ChildClass extends ParentClass { };
public class Phase2TestNg {
    public static void main(String[] args) {
        try {
            throw new ChildClass();
        }
        catch(ParentClass p) {
            System.out.println("Caught parent class exception");
        }
        catch(ChildClass c) {
            System.out.println("Caught child class exception");
        }
    }
}
```

**Caught Parent Class Exception**

Caught Child Class Exception

Error because the Child Class is not Throwable

Error because the Parent Class Exception is caught before Child Class

```
21.class Vehicle {
    int vno;
    String name;
    public Vehicle (int vno, String name) {
        this.vno = vno;
        this.name = name;
    }
    public String toString () {
        return vno + ":" + name;
    }
}
```

and this code fragment:

```
Set<Vehicle> vehicles = new TreeSet<> ();
vehicles.add(new Vehicle (10123, "Ford"));
```

```
vehicles.add(new Vehicle (10124, "BMW"));
System.out.println(vehicles);
```

what will be the output for the following code ?

Output: [10123:Ford, 10124:BMW]

22.

```
public class Employee{
private int empld;
private String name;
private String city;
```

```
Employee() {
    this.city = "New York";
}
```

```
Employee(String name, int empld) {
    this();
    this.name = name;
    this.empld = empld;
}
```

```
public static void main(String[] args) {
    Employee employee1 = new Employee("John", 101);
    Employee employee2 = new Employee();

    System.out.println(employee1.name + " " + employee1.empld + " "
        + employee1.city);

    System.out.println(employee2.name + " " + employee2.empld + " "
        + employee2.city);
}
```

Output:

```
John 101 New York
null 0 New York
```

23.What is the valid syntax to select all the checkboxes in the page using java ?

[a]

```
List<WebElement> all = driver.findElement(By.xpath("//input[@type='checkbox']"));
```

```
for (WebElement element : all)
{
    element.click();
}
```

[b]

```
List<WebElement> all = driver.findElements(By.xpath("/input[@type='checkbox']"));
```

```
for (WebElement element : all)
```

```
{  
    element.click();  
}
```

[c]

```
List<WebElement> all = driver.findElement(By.xpath("*/input[@type='checkbox']"));
```

```
for (WebElement element : all)
```

```
{  
    element.click();  
}
```

[d]

```
List<WebElement> all = driver.findElements(By.xpath("//input[@type='checkbox']"));
```

```
for (WebElement element : all)
```

```
{  
    element.click();  
}
```