**1. What will be the output of the following Java program?**

**class variable\_scope**

**{**

**public static void main(String args[])**

**{**

**int x;**

**x = 5;**

**{**

**int y = 6;**

**System.out.print(x + " " + y);**

**}**

**System.out.println(x + " " + y);**

**}**

**}**

a) Compilation error

b) Runtime error

c) 5 6 5 6

d) 5 6 5

**Answer: a**

Explanation: Second print statement doesn’t have access to y , scope y was limited to the block defined after initialization of x.

output:

$ javac variable\_scope.java

Exception in thread "main" java.lang.Error: Unresolved compilation problem: y cannot be resolved to a variable

**2. What will be the error in the following Java code?**

byte b = 50;

b = b \* 50;

a) b cannot contain value 50

b) b cannot contain value 100, limited by its range

c) No error in this code

d) \* operator has converted b \* 50 into int, which can not be converted to byte without casting

**Answer: d**

Explanation: While evaluating an expression containing int, bytes or shorts, the whole expression is converted to int then evaluated and the result is also of type int.

**3. Which of the following is a type of polymorphism in Java Programming?**

a) Multiple polymorphism

b) Compile time polymorphism

c) Multilevel polymorphism

d) Execution time polymorphism

**Answer: b**

Explanation: There are two types of polymorphism in Java. Compile time polymorphism (overloading) and runtime polymorphism (overriding).

**4. What will be the output of the following Java program?**

class leftshift\_operator

{

public static void main(String args[])

{

byte x = 64;

int i;

byte y;

i = x << 2;

y = (byte) (x << 2);

System.out.print(i + " " + y);

}

}

a) 0 256

b) 0 64

c) 256 0

d) 64 0

**Answer: c**

Explanation: None.

output:

$ javac leftshift\_operator.java

$ java leftshift\_operator

256 0

**5. What will be the output of the following Java code?**

class box

{

int width;

int height;

int length;

}

class main

{

public static void main(String args[])

{

box obj = new box();

obj.width = 10;

obj.height = 2;

obj.length = 10;

int y = obj.width \* obj.height \* obj.length;

System.out.print(y);

}

}

a) 100

b) 400

c) 200

d) 12

**Answer: c**

Explanation: None.

output:

$ javac main.java

$ java main

200

**6. What is Truncation in Java? 10.00 = 10**

a) Floating-point value assigned to a Floating type

b) Floating-point value assigned to an integer type

c) Integer value assigned to floating type

d) Integer value assigned to floating type

**Answer: b**

Explanation: None.

**7. What will be the output of the following Java program?**

class Output

{

public static void main(String args[])

{

int arr[] = {1, 2, 3, 4, 5};

for ( int i = 0; i < arr.length - 2; ++i)

System.out.println(arr[i] + " ");

}

}

a) 1 2 3 4 5

b) 1 2 3 4

c) 1 2

d) 1 2 3

**Answer: d**

Explanation: arr.length() is 5, so the loop is executed for three times.

output:

$ javac Output.java

$ java Output

1 2 3

**8. What will be the output of the following Java code snippet?**

class abc

{

public static void main(String args[])

{

if(args.length>0)

System.out.println(args.length);

}

}

a) The snippet compiles and runs but does not print anything

b) The snippet compiles, runs and prints 0

c) The snippet compiles, runs and prints 1

d) The snippet does not compile

**Answer: a**

Explanation: As no argument is passed to the code, the length of args is 0. So the code will not print.

**9. What is the extension of compiled java classes?**

a) .txt

b) .js

c) .class

d) .java

**Answer: c**

Explanation: The compiled java files have .class extension.

**10. Which exception is thrown when java is out of memory?**

a) MemoryError

b) OutOfMemoryError

c) MemoryOutOfBoundsException

d) MemoryFullException

**Answer: b**

Explanation: The Xms flag has no default value, and Xmx typically has a default value of 256MB. A common use for these flags is when you encounter a java.lang.OutOfMemoryError.