

## Core Java: Part 5

1. What is the output of the below code:

```
StringBuffer s = new StringBuffer("Hello");  
StringBuffer s1 = new StringBuffer("World");  
s.append(s1);  
System.out.println(s);
```

- A) Hello
- B) World
- C) Hello World
- D) Compilation Fails

2. What is the output of the below syntax:

```
String s = "IDEAL";  
System.out.println(s.substring(0, s.length()-1)+(s.charAt(s.length()-1)));
```

- A) IDE
- B) IDEAL
- C) IDEA
- D) Compilation Fails

3. What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        StringBuffer buffer = new StringBuffer("HelloWorld");  
        buffer.insert(5, "test");  
        System.out.println(buffer);  
    }  
}
```

- A) Hellotest

- B) **HelloTestWorld**
- C) Compilation fails
- D) Runtime error

4. What is the output of the below code:

```
public class Test{  
    public static void main(String[] args) {  
        String s = new String("IBM");  
        System.out.println(s.length());  
    }  
}
```

- A) 2
- B) **3**
- C) Compilation fails
- D) runtime error

5. What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        String str = "Good Morning";  
        str.concat("Hello");  
        System.out.println(str);  
    }  
}
```

- A) **Good Morning**
- B) Good Morning Hello
- C) Compilation fails
- D) runtime error

6. What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        StringBuffer buffer = new StringBuffer("Good");  
        buffer.reverse();  
        System.out.println(buffer);  
    }  
}
```

- A) dooG
- B) Good
- C) Compilation fails
- D) runtime error

7. What is the output of the below code:

```
public class DemoProgram {  
    public static void main(String[] args) {  
        System.out.println(5+4+"String"+7+1);  
    }  
}
```

- A) 54String71
- B) 9String8
- C) 9String71
- D) 54String8

8. What is the output of the below code:

```
public class DemoProgram {  
    public static void main(String[] args) {  
        String str = "Hello World";  
    }  
}
```

```

str.addAtIndex(5,"test");
}
}

```

- A) HellotestWorld
- B) Hellotest
- C) **Compilation fails**
- D) runtime error

9. What is the output of the above code?

```

class SuperClass {
    public int dolt(String str, Integer... data)throws ArrayIndexOutOfBoundsException{
        String signature = "(String, Integer[])";
        System.out.println(str + " " + signature);
        return 1;
    }
}

public class Test extends SuperClass{
    public int dolt(String str, Integer... data) throws Exception
    {
        String signature = "(String, Integer[])";
        System.out.println("Overridden: " + str + " " + signature);
        return 0;
    }

    public static void main(String... args)
    {
        SuperClass sb = new Test();
        try{
            sb.dolt("hello", 3);
        }catch(Exception e){
        }
    }
}

```

- A) Overridden:hello(String, Integer[])
- B) hello (String, Integer[])
- C) This code throws exception at run time
- D) **compile time error**

**10. Pick runtime exception?....A. ClassCastException**

**B. FileNotFoundException**

**C. NullPointerException**

**D. SecurityException**

**E. Above all**

A) A,B,C

B) C,D,E

C) A,D,E

D) **A,C,D**

E) E

**11. In multiple catch clause which of the following statements are valid?**

- A) Super class block will execute first
- B) **Sub class catch block will execute first**
- C) Super class catch block will never execute
- D) Sub class catch block will never execute

**12. What is the output of the below code:**

```
public class Test {  
    public static void main(String[] args) {  
        double x = 0, y = 5.4324;  
        try {  
            System.out.println( (y/x) );  
        }  
    }  
}
```

```

}
catch (Exception e) {
System.out.println("Exception");
}
catch (Throwable t) {
System.out.println("Error");
} } }

```

- A) Exception
- B) Error
- C) Infinity
- D) Exception Error

13. What is the output of the below code:

```

class OurCreatedException extends Exception{
OurCreatedException(){
super();
}
}
class XYZ{
public static void method(String name) throws OurCreatedException{
if(name==null){
throw new OurCreatedException();
}
else{
System.out.println("Welcome "+name);
}}
}
class Test{
public static void main(String[] args) {
XYZ.method("John");
}
}

```

}

- A) Welcome John
- B) null
- C) **Compilation fails**
- D) OurCreatedException thrown at run time

**14. What type of Exception Occurs at the following snippet code:**

**Number n = new Integer(12);**

**Double d = (Double)n;**

**System.out.println(d);**

- A) NumberFormatException
- B) **ClassCastException**
- C) InputMismatchException
- D) None of the above

**15. What is the output of the below code:**

**public class DemoProgram {**

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

**try{**

**int a=0,b=10;**

**int c=a/b;**

**System.out.println("Hello");**

**}catch(ArithmeticException e){**

**System.out.println("world");**

**}**

**}**

**}**

- A) world
- B) **Hello**
- C) ArithmeticException

D) Compilation fails

**16. What type of exception occurs in the below code:**

```
class Test{  
    public static void main(String[] args) {  
        try{  
            int[] array = {1,3,5,6};  
            System.out.println(array[-1]);  
        }catch(NegativeArraySizeException ne){  
            ne.printStackTrace();  
        }  
        catch(ArrayIndexOutOfBoundsException ae){ae.printStackTrace();  
        }  
    }  
}
```

- A) NegativeArraySizeException
- B) **ArrayIndexOutOfBoundsException**
- C) both a & b
- D) none of the above mentioned

**17. Given that the current directory is empty, and that the user has read and write permissions, and the following:**

- 11. `import java.io.*;`
- 12. `public class DOS {`
- 13. `public static void main(String[] args) {`
- 14. `File dir = new File("dir");`
- 15. `dir.mkdir();`
- 16. `File f1 = new File(dir, "f1.txt");`



```
17. try {  
18. f1.createNewFile();  
19. } catch (IOException e) { ; }  
20. File newDir = new File("newDir");  
21. dir.renameTo(newDir);  
22. }  
23. }
```

Which statement is true?

- A. Compilation fails.
  - B. The file system has a new empty directory named dir.
  - C. The file system has a new empty directory named newDir.
  - D. The file system has a directory named dir, containing a file f1.txt.
  - E. The file system has a directory named newDir, containing a file f1.txt.
- A) A  
B) B  
C) C  
D) D  
E) **E**

18. What will be the result of compiling and run the following code:

```
import java.io.File;  
  
public class Test {  
    public static void main(String... args) throws Exception {  
        File myDir = new File("test");  
        // myDir.mkdir();  
        File myFile = new File( myDir, "test.txt");  
        myFile.createNewFile();  
    }  
}
```

A) create directory "test" and a file name as "test.txt"

B) java.io.IOException

C) Compile with error

D) None of the above

**19. Which of the following is correct about junit?**

a) It is an open source framework.

b) It provides Annotation to identify the test methods.

c) It provides Assertions for testing Expected results

d) All of the above

**20. Name the pattern which involves a single class which is responsible to create an object while**

**making sure that only single object gets created?**

Singleton

**21. What is the output of this program?**

```
import java.util.*;

public class genericstack <E> {
    Stack <E> stk = new Stack <E>();
    public void push(E obj) {
        stk.push(obj);
    }
    public E pop() {
        E obj = stk.pop();
        return obj;
    }
}
```

```

class Output {
public static void main(String args[])
{
genericstack <String> gs = new gene
ricstack<String>();
gs.push("Hello");
System.out.print(gs.pop() + " ");
genericstack <Integer> gs = new gen
ericstack<Integer>();
gs.push(36);
System.out.println(gs.pop());
}
}

```

- a) Error
- b) Hello
- c) 36
- d) Hello 36

22. What is the output of this program?

```

import java.util.*;
class Collection_Algos {
public static void main(String args[])
{LinkedList list = new LinkedList();
list.add(new Integer(2));
list.add(new Integer(8));
list.add(new Integer(5));
list.add(new Integer(1));
Iterator i = list.iterator();
Collections.reverse(list);
Collections.sort(list);
while(i.hasNext())

```

```
System.out.print(i.next() + " ");
```

```
}
```

```
}
```

a) 2 8 5 1

b) 1 5 8 2

c) 1 2 5 8

d) 2 1 8 5

23. What is the output of this program?

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

```
class Bitset {
```

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

```
{
```

```
    BitSet obj = new BitSet(5);
```

```
    for (int i = 0; i < 5; ++i)
```

```
        obj.set(i);
```

```
    obj.clear(2);
```

```
    System.out.print(obj);
```

```
}
```

```
}
```

a) {0, 1, 3, 4}

b) {0, 1, 2, 4}

c) {0, 1, 2, 3, 4}

d) {0, 0, 0, 3, 4}