# QUESTION BANK 3

## QUESTION BANK



### **API CONTENTS**

#### **CERTIFICATION OBJECTIVES**

- 3.1 Develop code that uses the primitive wrapper classes (such as Boolean, Character, Double, Integer, etc.), and/or autoboxing & unboxing. Discuss the differences between the String, StringBuilder, and StringBuffer classes.
- 3.2 Given a scenario involving navigating file systems, reading from files, writing to files, or interacting with the user, develop the correct solution using the following classes (sometimes in combination), from java.io: BufferedReader, BufferedWriter, File, FileReader, FileWriter, PrintWriter, and Console.
- 3.3 Develop code that serializes and/or de-serializes objects using the following APIs from java.io: DataInputStream, DataOutputStream, FileInputStream, FileOutputStream, ObjectInputStream, ObjectOutputStream and Serializable.
- 3.4 Use standard J2SE APIs in the java.text package to correctly format or parse dates, numbers, and currency values for a specific locale; and, given a scenario, determine the appropriate methods to use if you want to use the default locale or a specific locale. Describe the purpose and use of the java.util.Locale class.
- 3.5 Write code that uses standard J2SE APIs in the java.util and java.util.regex packages to format or parse strings or streams. For strings, write code that uses the Pattern and Matcher classes and the String.split method. Recognize and use regular expression patterns for matching (limited to: . (dot), \* (star), + (plus), ?, \d, \s, \w, [], ()). The use of \*, +, and ? will be limited to greedy quantifiers, and the parenthesis operator will only be used as a grouping mechanism, not for capturing content during matching. For streams, write code using the Formatter and Scanner classes and the PrintWriter.format/printf methods. Recognize and use formatting parameters (limited to: %b, %c, %d, %f, %s) in format strings.

Q 1: Maria works as a Programmer for BlueMoon Inc. She writes the following program:

#### What is the result of attempting to compile and run the program?

- A. The program will not compile.
- B. The program will display:

Total=300

Percent=40%

- C. The program will compile successfully but throw a runtime exception.
- D. The program will display: Total=300%nPercent=40%

## QUESTION 3.2

- Q 2: Which of the following statements about the regex API are true?
  - A. The package java.util.regex contains classes for matching character sequences against patterns specified by regular expressions.
  - B. The package java.util.regex includes an exception called PatternSyntaxException.
  - C. Instances of Matcher class are used to represent regular expressions in the form of String type.
  - D. Instances of the Pattern class are used to match character sequences against a given pattern.

## QUESTION 3.3

Q 3: Neha works as a Programmer for SoftNet Inc. She writes the following program:

What will happen when Neha attempts to compile and execute the preceding program?

```
A. It will produce the output as:

usi

ngspli

tfuncti

on

B. It will produce the output as:

us

ingspl

iffunct

ion
```

- C. It will produce the output as: us
- D. It will produce the output as:

us ngspl on

## QUESTION 3.4

Q 4: John Smith works as a Programmer for BlueMoon Inc. He writes the following program:

What will happen when he tries to compile and execute the preceding program?

- A. It will produce the output as: abcdef
- C. It will produce the output as: abc3d4ef
- B. It will produce the output as: 3d4
- D. It will produce the output as: a1b2c3d4ef

QUESTION 3.5

Q 5: Imagine you work as a Programmer in SoftTech Inc. You write the following program:

Which of the following statements will you insert in line 5, so that the program will compile and execute successfully and produce the output as 2?

- A. String[] fc=s.split("\\w");C. String[] c=s.split("\\s");
- B. String[]  $c=s.split(" \setminus d");$
- D. String[]  $c=s.split("\setminus S");$

The correct option is B.

Q 6: Sam works as a Programmer for BlueMoon Inc. He writes the following program:

```
import java.io.*;
public class TryQuestion {
    public static void main(String str[]) {
        try {
            FileWriter fw = new FileWriter("filereadwrite.txt");
            BufferedWriter bw=new BufferedWriter(fw);
            bw.write("have a good day");
        bw.close();
        FileReader fr = new FileReader("filereadwrite.txt");
        BufferedReader br = new BufferedReader(fr);
        br.read();
        br.read();
        br.skip(8);
        System.out.println((char)br.read());
        br.close();
    }
    catch(IOException e) {
        System.out.println("IOException : "+e.toString());
    }
}
```

#### What will happen when he tries to compile and execute the preceding program?

- A. It will produce the output as "o".
- B. It will produce the output as "d".
- C. It will produce the output as "g".
- D. It will throw a runtime exception- IOException.

## QUESTION 3.7

Q 7: Mr. Paul works as a Programmer for BlueMoon Inc. He writes the following program:

```
class Square extends DrawObject {
    private int x;
    public Square (int x) {
        this.x=x;
    }
    public void drawShape() {
            System.out.println("The side of a square is : "+x);
    }
} class Circle extends DrawObject {
        private int rad;
        public Circle(int rad) {
            this.rad=rad;
     }
    public void drawShape() {
            System.out.println("The radius of a circle is : "+rad);
    }
}
```

#### What will happen when he tries to compile and execute the preceding program?

A. It will produce the output as:

Before Serialization

The side of a square is: 10

The radius of a circle is: 7

After Serialization

The side of a square is : 0

The radius of a circle is: 0

C. It will produce the output as:

Before Serialization

The side of a square is: 10

The radius of a circle is: 7

After Serialization

The side of a square is: 0

The radius of a circle is: 7

B. It will produce the output as:

Before Serialization

The side of a square is: 10

The radius of a circle is: 7

After Serialization

The side of a square is: 10

The radius of a circle is: 7

D. It will display the output as:

Before Serialization

e is: 10

The radius of a circle is: 7

It is followed by the runtime exception- NotSerializableException, because of Square class.

## QUESTION 3.8

Q 8: John works as a Java Programmer for BlueMoon Inc. His computer system does not have any instance of 'LabManualTest.txt' file. John writes the following program:

```
import java.io.*;
public class TryQuestion {
    public static void main(String str[]) {
        File file = new File ("LabManualTest.txt");
        System.out.println("The existence of file is : "+file.exists());
    }
}
```

#### What will happen when he attempts to compile and execute the preceding program?

- A. It will produce the output as: The existence of file is: true
- C. It will not compile.
- B. It will produce the output as: The existence of file is: false
- D. It will throw a runtime exception- IOException.

## QUESTION 3.9

Q 9: Mehtab works as a Programmer for Kogent Solutions Inc. He writes the following program:

#### What will happen when he tries to compile and execute the preceding program?

- A. It will produce the output as:
  Before parse the number is:
  23456.789
  - After parse the number is: 23456
- C. It will not compile successfully.
- B. It will produce the output as:
  Before parse the number is: 23456
  After parse the number is: 23456.789
- It will compile successfully, but throw a runtime exception ParseException

## QUESTION 3.10

Q 10: Smith works as a Software Developer for BlueMoon Inc. He writes the following program:

```
import java.util.regex.*;
import java.util.*;
public class TryQuestion {
public static void main(String str[]) {
Pattern pat=Pattern.compile("[1-9&&[^468]]*");
Matcher mat=null;
mat=pat.matcher("12345");
System.out.println(mat.matches());
mat=pat.matcher("12579");
System.out.println(mat.matches());
}
}
```

#### What will happen when he tries to compile and execute the preceding program?

A. It will produce the output as: true true

B. It will produce the output as: true false

C. It will produce the output as:

false true D. It will produce the output as: null null

QUESTION 3.11

#### Q 11: Kabir works as a Software Developer for SoftSample Inc. He writes the following program:

#### What will happen when he attempts to compile and execute the above program?

A. It will produce the output as:
 Before:
 Not Transient: Test1
 Transient: Test2
 After:

Not Transient: Test1 Transient: null

B. It will not compile.

C. It will produce the output as:

Before: Not Transient: Test1

After:

Not Transient: Test1 Transient: Test2

D. It will throw a runtime exception.



#### Q 12: Vandana works as a Software Developer for SoftSample Inc. She writes the following program:

```
import java.io.*;
class X implements Externalizable {
    public X() {
                System.out.println("X Constructor invoking");
        }
class Y implements Externalizable {
        Y() {
                System.out.println("Y Constructor invoking");
        public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
                System.out.println("Y.readExternal calling");
System.out.println("Constructing objects b1 and b2:");
                X b1 = new X();

Y b2 = new Y();
                ObjectOutputStream o = new ObjectOutputStream(new FileOutputStream ("File.out"));
System.out.println("Saving objects b1 and b2:");
                o.writeObject(b1);
                o.writeObject(b2);
                o.close();
                ObjectInputStream in = new ObjectInputStream(new FileInputStream ("File.out"));
System.out.println("Recovering object b1:");
                b1 = (X) in.readObject();
        }
}
```

#### What will happen when she tries to compile and execute the preceding program?

A. It will produce the output as:

Constructing objects b1 and b2:

X Constructor invoking

Y Constructor invoking

Y Constructor invoking

Y Constructor invoking

Saving objects b1 and b2: X.writeExternal calling Y.writeExternal calling Recovering object b1: X.readExternal calling

C. It will produce the output as:
Constructing objects b1 and b2:
X Constructor invoking
Y Constructor invoking
Saving objects b1 and b2:
X.writeExternal calling
Y.writeExternal calling
Recovering object b1:

X Constructor invoking

Saving objects b1 and b2: X.writeExternal calling Y.writeExternal calling : X Constructor invoking X.readExternal calling

D. It will throw a runtime exception.

## QUESTION 3.13

Q 13: Hemant works as a Programmer for SoftSample Inc. His computer system has no instance of file1.txt and file2.txt files. Hemant writes the following program:

#### What will happen when he tries to compile and execute the preceding program, first time?

- A. It will produce the output as: One or both files do not exist
- C. It will produce the output as:
  One or both files do not exist
- B. It will give compilation error.
- D. It will throw a runtime exception.

I

#### Q 14: Hemani works as an Application Developer for SoftSample Inc. She writes the following program:

What will happen when she tries to compile and execute the above program (assume that the SourceReader.java file already exists on Hemani's computer system)?

- A. It will produce compile error at line 1.
- B. It will produce compile error at line 2.
- C. It will produce compile error at line 3.
- D. It will compile and execute successfully.

## QUESTION 3.15

#### Q 15: Sumit works as a Programmer for SoftSample Inc. He writes the following program:

What will happen when he tries to compile and execute the preceding program?

- A. It will produce compile error at line 1.
- B. It will produce compile error at line 2.
- C. It will produce compile error at line 3.
- D. It will compile and execute successfully.

#### Q 16: Mohit works as a Programmer for SoftTech Inc. He writes the following program:

```
import java.text.*;
public class TryQuestion {
    public static void main(String[] args) {
        double d=1234.56789;
        NumberFormat myFormat = NumberFormat.getInstance();
        myFormat.setMaximumIntegerDigits(3);
        String radianString = myFormat.format(d);
        myFormat.setMaximumFractionDigits(3);
        String gradString =myFormat.format(d);
        myFormat.setMinimumFractionDigits(2);
        String degreeString = myFormat.format(d);
        system.out.println(gradString);
        System.out.println(radianString);
        System.out.println(degreeString);
}
```

#### What will happen when he tries to compile and execute the preceding program?

```
    A. It will produce the output as:
        1234.568
        234.56789
        1234.57
    B. It will produce the output as:
        8
        234.568
        234.568
    C. It will produce the output as:
        234.56789
        1234.568
        1234.568
        1234.57
    D. It will produce the output as:
        123.568
        1234.5689
        1234.579
    D. It will produce the output as:
        123.568
        1234.56789
    D. It will produce the output as:
        123.568
        1234.56789
    D. It will produce the output as:
        123.568
        1234.579
```

## QUESTION 3.17

#### Q 17: Dheeraj works as a Programmer for Kogent Solutions Inc. He writes the following program:

```
public class TryQuestion {
    public static void main( String args[] ) {
        String s1 = new String( "hello" );
        String s2 = new String( "GOODBYE" );
        System.out.printf( "s1 = %s\ns2 = %s\n", s1, s2);
        System.out.printf( "s1 in uppercase = %s\n", s1.toUpperCase() );
        System.out.printf( "s2 in lowercase = %s\n\n", s2.toLowerCase() );
    }
}
```

#### What will happen when he tries to compile and execute the preceding program?

A. It will produce the output as:

B. It will produce the output as: s1 = hello

s

```
s2 = GOODBYE
s1 in uppercase = HELLO
s2 in lowercase = goodbye
C. It will give compilation error.
```

```
s2 = GOODBYE
s1 in uppercase = hello
s2 in lowercase = GOODBYE
D. It will throw a runtime exception.
```

#### Q 18: Shilpa works as a Programmer for Kogent Solutions Inc. She writes the following program:

```
public class TryQuestion {
    public static void main(string args[]) {
        String str1 = "First string";
        String str2 = "Second String";
        String str3 = str1;
        System.out.println("Length of str1: " + str1.length());
        System.out.println("Char at index 2 in str1: " + str1.charAt(2));
        if(str1.equals(str2))
        System.out.println("str1 == str2");
        else
        System.out.println("str1 != str2");
        if(str1.equals(str3))
        System.out.println("str1 == str3");
        else
        System.out.println("str1 != str3");
    }
}
```

#### What will happen when she tries to compile and execute the preceding program?

```
A. It will produce the output as:
Length of str1: 12
Char at index 2 in str1: i
str1!= str2
str1 == str3
C. It will produce the output as:
Length of str1: 11
Char at index 2 in str1: r
str1!= str2
str1 == str3
```

```
B. It will produce the output as:
Length of str1: 12
Char at index 2 in str1: r
str1!= str2
str1 == str3
D. It will give compilation error.
```

QUESTION 3.19

#### Q 19: Shivam works as a Programmer for Kogent Solutions Inc. He writes the following program:

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

```
string s1 = "one";
    string s2 = "one";
    String s3 = "two";
    string s4 = "ONE";
    System.out.println(s1 + " equals " + s2 + " -> " + s1.equals(s2));
    System.out.println(s1 + " equals " + s3 + " -> " + s1.equals(s3));
    System.out.println(s1 + " equals " + s4 + " -> " + s1.equals(s4));
    System.out.println(s1 + " equals " + s4 + " -> " + s1.equals(s4));
    System.out.println(s1 + " equalsIgnoreCase " + s4 + " -> " +
    s1.equalsIgnoreCase(s4));
}
```

#### What will happen when he tries to compile and execute the preceding program?

- A. It will produce the output as:
  one equals one -> true
  one equals two -> false
  one equals ONE -> true
  one equalsIgnoreCase ONE -> true
- C. It will produce the output as:
  one equals one -> true
  one equals two -> false
  one equals ONE -> false
  one equalsIgnoreCase ONE -> false
- B. It will produce the output as: one equals one -> false one equals two -> false one equals ONE -> false one equals IgnoreCase ONE -> true
- O. It will produce the output as:
  one equals one -> true
  one equals two -> false
  one equals ONE -> false
  o ONE -> true

## QUESTION 3.20

#### Q 20: Nirmal works as a Programmer for Kogent Solutions Inc. He writes the following program:

```
public class TryQuestion {
    public static void main(String args[]) {
        String s1 = "MyString";
        String s2 = new String(s1);
        System.out.println(s1 + " equals " + s2 + " is " + s1.equals(s2));
        System.out.println(s1 + " == " + s2 + " is " + (s1 == s2));
    }
}
```

#### What will happen when he attempts to compile and execute the preceding program?

- A. It will produce the output as:

  MyString equals MyString is true

  MyString = MyString is true
- C. It will produce the output as:

MyString == MyString is false

- B. It will produce the output as:
  MyString equals MyString is false
  MyString == MyString is false
- D. It will produce the output as:
   MyString equals MyString is false
   MyString == MyString is true



#### Sanjay works as a Software Developer for HighNet Inc. He writes the following program: Q 21:

```
public class TryQuestion {
                              lass Tryquestion {
public static void main( String args[] ) {
   String s1 = new String( "hello" );
   String s2 = new String( "india" );
   System.out.printf( "s1 = %s\ns3 = %s\n", s1, s2 );
   System.out.printf("Replace 'l' with 'L' in s1: %s\n", s1.replace('l','L'));
   System.out.printf("Replace 'i' with 'I' in s2: %s", s2.replace('d','D'));
}
}
```

#### What will happen when he tries to compile and execute the preceding program?

A. It will produce the output as:

s1 = hello

s3 = india

Replace 'l' with 'L' in s1: heLLo Replace 'i' with 'I' in s2: IndIa

C. It will produce the output as:

s1 = hello

s3 = india

Replace 'l' with 'L' in s1: heLlo Replace 'i' with 'I' in s2: InDia

B. It will produce the output as:

s1 = hello

s3 = india

Replace 'l' with 'L' in s1: heLLo

С

D. It will produce the output as:

s1 = hello

s3 = india

Replace 'I' with 'L' in s1: hello Replace 'i' with 'I' in s2: inDia

## **QUESTION 3.22**

#### Q 22: Mahima works as a Programmer in SoftTech Inc. She writes the following program:

```
public class TryQuestion {
  public static void main(String str[]) {
    String s = new String("A bird is");
    s.append("flying");
    System.out.println("The value stored in String class is : "+s);
    StringBuffer sb = new StringBuffer("A bird is");
    sb.append("flying");
    System.out.println("The value stored in StringBuffer class is : "+sb);
    StringBuilder sbi = new StringBuilder("A bird is");
    sbi.append("flying");
    System.out.println("The value stored in StringBuilder class is : "+sbi);
    }
}
```

#### What will happen when she tries to compile and execute the preceding program?

A. It will produce the output as:

The value stored in String class is: A bird

The value stored in StringBuffer class is: A bird isflying

The value stored in StringBuilder class is: A bird isflying

B. It will produce the output as:

The value stored in String class is: A bird isflying

The value stored in StringBuffer class is: A bird

The value stored in StringBuilder class is: A bird isflying

C. It will produce the output as:

The value stored in String class is: A bird

The value stored in StringBuffer class is : A bird is

The value stored in StringBuilder class is :

A bird isflying

#### D. It will give compilation error.

## QUESTION 3.23

#### Q 23: Manish works as a Programmer for SoftTech Inc. He writes the following program:

#### What will happen when he tries to compile and execute the preceding program?

- A. It will give compilation error at line 1.
- B. It will give compilation error at line 2.
- C. It will give compilation error at line 3.
- D. It will throw a runtime exception and prints "No console is available".

## $\Theta_{oldsymbol{\bot}}$

#### Q 24: Maria works as a Programmer for SoftTech Inc. She writes the following program:

```
import java.util.*;
import java.text.*;
public class TryQuestion {
    public static void main(String str[]) {
        Date date = new Date();
        DateFormat df;
        df = DateFormat.getDateInstance(DateFormat.MEDIUM, Locale.US);
        System.out.println("United States: " + df.format(date));
        df = DateFormat.getDateInstance(DateFormat.FULL, Locale.US);
```

```
System.out.println("United States: " + df.format(date));
}
```

What will happen when she tries to compile and execute the preceding program? (Assume that the current date is  $5_{th}$  August 2008)

- A. It will produce the output as: United States: Aug 5, 2008
- C. It will give compilation error.
- B. It will produce the output as: United States: 8/5/08 United States: August 5, 2008
- D. It will throw a runtime exception.

## QUESTION 3.25

#### Q 25: Mary works as a Programmer for SoftTech Inc. She writes the following program:

#### What will happen when she tries to compile and execute the preceding program?

- A. It will compile and execute successfully, but no output will be shown.
- C. It will produce the output as:
- B. It will produce the output as:
- D. It will produce the output as:

#### **QUESTION 3.26**



#### Q 26: Vikash works as a Programmer for DreamTech Inc. He writes the following program:

#### What will happen when he tries to compile and execute the preceding program?

- A. It will produce the output as:
  - 45
- C. It will produce the output as:
- B. It will produce the output as:
  - Α

\\\

D. It will give compilation error.

QUESTION	3 27
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Kabir works as a Programmer for SoftTech Inc. He writes the following program: Q 27:

```
public class TryQuestion {
public static void main(string[] str) {
System.out.println(400+Integer.valueOf("200"));
}}
```

#### What will happen when he tries to compile and execute the above program?

A. It will produce the output as:

- C. It will give compilation error.
- B. It will produce the output as: 400+200
- D. It will throw a runtime exception.

## **QUESTION 3.28**

Q 28: Suchita works as a Programmer for DreamTech Inc. She writes the following program:

```
}}
```

#### What will happen when she tries to compile and execute the preceding program?

A. It will produce the output as:

abcd

C. It will produce the output as: 65

B. It will produce the output as:

D. It will give compilation error.

#### **QUESTION 3.29**



#### Which of the following statements are true about the metacharacters?

A. \s: It is used for a non-whitespace character

B. \S: It is used for a whitespace character

C. \w: It is used for a word character

\W: It is used for a non- word character

#### Q 30: Manisha works as a Programmer for SoftTech Inc. She writes the following program:

```
public class TryQuestion {
    public static void main(String[] str) {
        int x=10;
        int y=20;
        System.out.println("Total is: "+x+y);
        String s="10";
        s=s.concat("20");
        System.out.println("Total is: "+s);
}
```

#### What will happen when she tries to compile and execute the preceding program?

A. It will produce the output as:

Total is: 30 Total is: 10

C. It will produce the output as:

Total is: 30 Total is: 1020 B. It will produce the output as:

Total is: 1020 Total is: 1020

D. It will produce the output as:

Total is: 1020 Total is: 10

## QUESTION 3.31

#### Q 31: Ritu works as a Programmer for Kogent Solutions Inc. She writes the following program:

```
public class TryQuestion {
    public static void main(String[] str) {
        String s1 = "hello world";
        System.out.println(s1);
        int x=s1.length();
        for(int i=0;i<x;i+=2)
        System.out.print(s1.charAt(i));
}}</pre>
```

#### What will happen when she tries to compile and execute the preceding program?

A. It will produce the output as:

hello world

.

C. It will give compilation error at line 1.

B. It will produce the output as:

hello world

ei oi

D. It will give compilation error at line 2.

## QUESTION 3.32

#### Q 32: Mehtab works as a Programmer for Kogent Solutions Inc. He writes the following program:

```
import java.util.regex.*;
import java.util.*;
public class TryQuestion {
  public static void main(String s[]) {
    Pattern pat=Pattern.compile("(hello){1}-(world){2}");
    Matcher mat=null;
    mat=pat.matcher("hello-worldworld");
    System.out.println(mat.matches());
    mat=pat.matcher("(hello){1}-(world){2}");
```

```
System.out.println(mat.matches());
}
```

#### What will happen when he tries to compile and execute the preceding program?

A. It will produce the output as:

true true

true

C. It will produce the output as: false

true false

null

D. It will produce the output as: null

B. It will produce the output as:

## QUESTION 3.33

#### Q 33: Deepak works as a Programmer for Kogent Solutions Inc. He writes the following program:

```
public class TryQuestion {
public static void main(String sr[]) {
Integer i=null;
i=new Integer(100);
int j=200;
i=j;
i=300;
System.out.println(i++);
Short s=10;
i=s;
System.out.println(i--);
}
```

#### What will happen when he tries to compile and execute the preceding program?

A. It will produce the output as:

301

B. It will give compilation error.

C. It will produce the output as:

300

10

D. It will throw a runtime exception.

## QUESTION 3.34

#### Q 34: Rajeev works as a Programmer for SoftTech Inc. He writes the following program:

#### What will happen when he tries to compile and execute the preceding program?

- A. It will produce the output as: 65.0 0x1.04p6
- C. It will give compilation error at line marked as 1.
- B. It will produce the output as: 0x1.04p6
- D. It will give compilation error at line marked as 2

#### Q 35: Mala works as a Programmer for EasySoftTech Inc. She writes the following program:

#### What will happen when she tries to compile and execute the preceding program?

- A. It will produce the output as: They are equal
- C. It will give compilation error at line marked as 1.
- B. It will produce the output as: They are not equal
- D. It will give compilation error at line marked as 3.

## QUESTION 3.36

#### Q 36: Manish works as a Software Developer for NewTech Inc. He writes the following program:

```
public class TryQuestion {
    public static void main(String str[]) {
        Integer num=10;
        Boolean bl;
        bl=(num instanceof Integer);
        System.out.println(bl);
        bl=(num instanceof Number);
        System.out.println(bl);
}
```

#### What will happen when he tries to compile and execute the preceding program?

- A. It will produce the output as:
  - true
- C. It will produce the output as: false

true

- B. It will produce the output as:
  - true false
- D. It will give compilation error.



#### Q 37: Vineet works as an Application Developer for AllienSoftTech Inc. He writes the following program:

#### What will happen when he attempts to compile and execute the preceding program?

- A. It will produce the output as:
  - r l
- C. It will give compilation error at line marked as 1.
- B. It will produce the output as: They are not equal
- D. It will give compilation error at line marked as

## QUESTION 3.38

Q 38: Vineet works as a Software Developer for AllienSoftTech Inc. He writes the following program:

```
import java.util.*;
public class TryQuestion {
public static void main(String str[]){
int total=0;
ArrayList <Double> arrl=new ArrayList <Double>();
for(double d=0.0; d<10.0;d++)
{
arrl.add(d);
}
for(double d2:arrl)
{
total+=d2;
}
System.out.println("Total = "+total);
}
</pre>
```

#### What will happen when he tries to compile and execute the preceding program?

- A. It will produce the output as:
  - Total = 0
- C. It will give compilation error.
- B. It will produce the output as:
  - Total = 45
- D. It will throw a runtime exception.

## QUESTION 3.39

Q 39: Aditya works as a Programmer for AllienSoftTech Inc. He writes the following program:

```
public class TryQuestion {
    static public void display(Integer num) {
        System.out.println("Integer");
```

#### What will happen when Aditya tries to compile and execute the preceding program?

A. It will produce the output as:

Float

}

Double

C. It will produce the output as:

Integer Float B. It will produce the output as: Integer

Double

D. It will throw a runtime exception.

## QUESTION 3.40

#### Q 40: Sumit works as a Programmer in Allien Soft Tech Inc. He writes the following program:

#### What will happen when he tries to compile and execute the preceding program?

A. It will produce the output as:

Float

Double

C. It will produce the output as:

Integer Float B. It will produce the output as:

Integer Double

D. It will throw a runtime exception.



#### Q 41: Renu works as a Java Programmer for AllienSoftTech Inc. She writes the following program:

#### What will happen when Renu tries to compile and execute the preceding program?

- A. It will produce the output as: Double
- C. It will produce the output as:
- B. It will produce the output as: Integer
- D. It will throw a runtime exception.

## QUESTION 3.42

#### Q 42: Kabir works as a Programmer for AllienSoftTech Inc. He writes the following program:

#### What will happen when Kabir tries to compile and execute the preceding program?

- A. It will produce the output as:
  - 3.14
  - 3.14
- B. It will throw a runtime exception.
- C. It will give compilation error at the line marked as 1.
- D. It will give compilation error at the line marked as 2.



Q 43: Charu works as a Programmer for AllienSoftTech Inc. She writes the following program:

```
import java.util.regex.*;
public class TryQuestion {
    public static void main(String str[]){
        Pattern p = Pattern.compile("Charu");
        String nameString = "My name is Charu. Charu Verma.";
        Matcher matcher = p.matcher(nameString);
        matcher.find();
        System.out.println(matcher.group());
    }
}
```

What will happen when Charu attempts to compile and execute the preceding program?

A. It will produce the output as:

B. It will produce the output as: CharuCharu

- C. It will give compilation error.
- D. It will throw a runtime exception.