QUESTION BANK 3





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.

QUESTION 3.1

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.
- 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.

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

```
public class TryQuestion {
    public static void main(String str[]) {
        String s="usingsplitfunction";
QUESTION 3.3
                                 }
                       }
            }
```

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

A. It will produce the output as: ngspli tfuncti on

B. It will produce the output as: ingspl

> itfunct ion

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

us ngspl tfunct

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

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

```
QUESTION or java.util.regex.*; //1

public class TryQuestion! //2

public static void main(String str[]) { //3

String s="Preparing 4 SCJP exam"; //4

//put the code here //5

System.out.println(c.length); //6

}} //6
```

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("\setminus w"); B. String[] c=s.split("\setminus d"); C. String[] c=s.split("\setminus s"); D. String[] c=s.split("\setminus s");
```

QUESTION 3.6

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.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

The side of a square is: 10

The radius of a circle is: 7

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:

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
- D. It will compile successfully, but throw a runtime exception ParseException
- Q 10: Smith works as a Software Developer for BlueMoon Inc. He writes the following program:

```
QUESTIOnportOjava.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
- B. It will produce the output as:

false

C. It will produce the output as:false true

QUESTION 3.11

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

```
ObjectOutputStream o = new ObjectOutputStream(fos);
o.writeObject(sc);
o.close();
FileInputStream fis = new FileInputStream("abc.txt");
ObjectInputStream in = new ObjectInputStream(fis);
MyBean sc2 = (MyBean) in.readObjectOtion Bank 3: API Contents
- System.out.println("After:\n" + sc2);
```

7

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

Transient: Test2

After:

Not Transient: Test1 Transient: Test2

D. It will throw a runtime exception.

QUESTION 3.12

Q 12: Vandana works as a Software Developer for SoftSample 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: Constructing objects b1 and b2: X Constructor invoking Y Constructor invoking B. 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.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:

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

D. It will throw a runtime exception.

X Constructor invoking
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:

```
import java.io.*;
public class TryQuestion {
    public static void main(String[] args) {
        File file1 = new File("file1.txt");
        File file2 = new File("file2.txt");
        if (!file1.exists() || !file2.exists()) {
            System.out.println("one or both files do not exist");
    }
    try {
        FileInputStream fis1 = new FileInputStream(file1);
            FileInputStream fis2 = new FileInputStream(file2);
            int i1 = fis1.read();
            int i2 = fis2.read();
            fis1.close();
            fis2.close();
        } catch (IOException e) {
                System.out.println("IO exception");}
        }
}
```

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

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:

```
QUESTIOnmort6java.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:
                                                     B. It will produce the output as:
                                                        234.568
    1234.568
    234.56789
                                                        234.568
    1234.57
                                                        234.568
C. It will produce the output as:
                                                     D. It will produce the output as:
    234.56789
                                                        123.568
    1234.568
                                                        234.56789
    1234.57
                                                        1234.57
```

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( "GOOBBYE" );
        System.out.printf( "s1 = %\ns2 = %\n", s1, s2);
        System.out.printf( "s1 in uppercase = %s\n", s1.toUpperCase() );
        System.out.printf( "s2 in lowercase = %s\n", s2.toLowerCase() );
}
```

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

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

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

```
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.
```

QUESTION 3.10

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: istr1 != str2
        str1 == str3
    C. It will produce the output as: Length of str1: 11
        Char at index 2 in str1: rstr1 != str2
        str1 == str3
```

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 equalsIgnoreCase ONE -> true
 D. It will produce the output as:
 one equals one -> true
 one equals two -> false
 one equals ONE -> false
 one equalsIgnoreCase 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:
- C. It will produce the output as:

 MyString equals MyString is true
 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

compares the two objects s1 and s2, but not their values, and returns false. As a result, the program will give the output as given in option C.



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

```
public class 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 'I' with 'L' in s1: heLLo
Replace 'i' with 'I' in s2: IndIa
C. It will produce the output as:
s1 = hello

s1 = india 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 'I' with 'L' in s1: heLLo
Replace 'I' with 'I' in s2: inDia

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);
    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

isflying

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.



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"

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 United States: Tuesday, August 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.

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

```
public class TryQuestion {
          public static void main(String[] str) {
                System.out.println("\\");
                System.out.println("\\\\");
                }
}
```

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:

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:
- C. It will produce the output as:

K

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

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

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

abcd

- a
- C. It will produce the output as:
- D. It will give compilation error.

65

Q 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

D. \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;
        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: 1020

Total is: 30

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

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

hlowrd

C. It will give compilation error at line 1.

B. It will produce the output as:

hello world

el ol

D. It will give compilation error at line 2.

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

C. It will produce the output as:

false true B. It will produce the output as:

true false

D. It will produce the output as:

null null

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

9

B. It will give compilation error.

C. It will produce the output as:

300

10

D. It will throw a runtime exception.

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

```
public class TryQuestion {
  public static void main(String str[]) {
     String s1=Double.toString(65);
     String s2=Double.toHexString(65);
     System.out.println(s1+" "+s2);
  }
}
```

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.

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

true

C. It will produce the output as:

false

true



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

```
public class TryQuestion {
    public static void main(string str[]) {
        Boolean bl1=new Boolean("true");
        boolean bl2=true;
        if(bl1.equals(bl2))
        System.out.println("They are equal");
        else
                                                                                                                                                                      //1
                                                                                                                                                                                                                   //2
                                              System.out.println("They are not equal");
                       }
}
```

What will happen when he attempts 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
- It will give compilation error at line marked as
- 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);
```

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.
- 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 Integer

Double

D. It will throw a runtime exception.

B. It will produce the output as:

Q 40: Sumit works as a Programmer in AllienSoftTech Inc. He writes the following program:

```
public class TryQuestion {
    static public void display(Integer num) {
        System.out.println("Integer");
    }
    static public void display(Float num) {
        System.out.println("Float");
    }
    static public void display(Double num) {
        System.out.println("Double");
    }
    public static void main(String str[]) {
        display(50);
        display(50.5);
    }
}
```

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:

```
public class TryQuestion {
    static public void display(Integer num) {
        System.out.println("Integer");
    }
    static public void display(float num) {
        System.out.println("Float");
    }
    static public void display(double num) {
            System.out.println("Double");
    }
    public static void main(String str[]) {
            display(50);
    }
}
```

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

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

```
public class TryQuestion {
        public static void main(String str[]) {
            float f1=3.14f;
            Float f2;
            f2=f1;
            System.out.println(f2);
            Double d1=f1;
            double d2=d1;
            System.out.println(d2);
        }
}
```

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:

Charu

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