

Given

```
import java.io.*;

public class Forest implements Serializable {
    private Animal animal = new Animal();
    public static void main(String [ ] args) {
        Forest f = new Forest();
        try {
            FileOutputStream fs = new FileOutputStream("Forest.ser");
            ObjectOutputStream os = new ObjectOutputStream(fs);
            os.writeObject(f); os.close();
        } catch (Exception ex) { ex.printStackTrace(); }
    }
}

class Animal { }
```

What is the result?

Please select :

- ☐ A. Compilation fails.
- ☐ B. An exception is thrown at runtime.
- ☐ C. An instance of Forest is serialized.
- ☐ D. An instance of Forest and an instance of Animal are both serialized.

Given :

```
1. import java.io.*;
2. public class FileMaker {
3.     public static void main(String [ ] args) {
4.         File dir = new File("dir");
5.         File f = new File(dir, "f");
6.     }
7. }
```

Which statement is true?

Please select :

- ☐ A. Compilation fails.
- ☐ B. Nothing is added to the file system.
- ☐ C. Only a new file is created on the file system.
- ☐ D. Only a new directory is created on the file system.
- ☐ E. Both a new file and a new directory are created on the file system.

Given the following code :

```
1. import java.io.FileInputStream;
2. //Codes
3.
4. public class Stream {
5.     public static void main(String [ ] args) throws IOException {
6.
7.         FileInputStream in = null;
8.         FileOutputStream out = null;
9.
10.        try {
11.            in = new FileInputStream("source.txt");
12.            out = new FileOutputStream("dest.txt");
13.            int c;
14.
15.            while ((c = in.read()) != -1) {
16.                out.write(c);
17.            }
18.        } finally {
19.            if (in != null) {
20.                in.close();
21.            }
22.            if (out != null) {
23.                out.close();
24.            }
25.        }
26.    }
27. }
```

Which are true?

(Select two options.)

Please select :

- ☐ A. We have to import java.io.FileOutputStream and java.io.IOException Compilation to succeed.
- ☐ B. Importing only java.io.FileOutputStream is enough Compilation to succeed.
- ☐ C. Importing only java.io.IOException is enough Compilation to succeed.
- ☐ D. java.io.FileInputStream is enough Compilation to succeed.
- ☐ E. Changing import java.io.FileInputStream; to import java.io.*; will make this code works.

Given the following code :

```
1. import java.io.Console;
2. class Co {
3.
4.     public static void main(String args [ ] ) {
5.         Console con = System.console();
6.         String uname = con.readLine("User Name: ");
7.         char [ ] p = con.readPassword("Password : ");
8.
9.         System.out.println("User name : "+ uname.toString());
10.        System.out.print("Password : ");
11.
12.        for(char c:p) {
13.            System.out.print(c);
14.        }
15.    }
16. }
```

Note: assume that you have access to console object.

Which is true?

Please select :

- ☐ A. Compilation will succeeds and will give prompt to enter user name and password
- ☐ B. Compilation fails due to an error on line 6.
- ☐ C. Compilation fails due to an error on line 7.
- ☐ D. Compilation fails due to an error on line 9.
- ☐ E. Compilation will succeeds and will only give prompt to enter user name

Given the following code :

```
1. import java.io.Console;
2. class Co{
3.
4.     public static void main(String args [ ] ) {
5.
6.         Console con = System.console();
7.         String s = con.readPassword("Password : ");
8.         if (s.equals("Rekha")) {
9.             System.out.print("Welcome");
10.        } else {
11.            System.out.print("Sorry");
12.        }
13.    }
14. }
```

Note: Assume that you have access to console object.

Which option is true?

Please select :

- ☐ A. Compilation will succeeds and will give prompt to enter Password and if we enter "rekha" then "Welcome" will be printed.
- ☐ B. Compilation will succeeds and will give prompt to enter Password and if we enter "Rekha" then "Welcome" will be printed.
- ☐ C. Compilation will succeeds and will give prompt to enter Password and if we enter "rekha" then "Sorry" will be printed.
- ☐ D. Compilation will succeeds and will give prompt to enter Password and if we don't enter anything then an exception will be thrown at runtime.
- ☐ E. Compilation fails.

Given the following code :

```
1. import java.io.*;
2. class Co {
3.
4.     public static void main(String args [ ] )throws IOException {
5.         int i;
6.         InputStream in = System.in;
7.         BufferedReader br = new BufferedReader(new InputStreamReader(in));
8.         try {
9.             i = br.read();
10.            System.out.print("ASCII value of " + (char)i + " is "+ i);
11.        } catch(IOException e) {
12.            System.out.print("IOException");
13.        }
14.    }
15. }
```

Which option is true?

Please select :

- ☐ A. Compilation fails due to error on line 6.
- ☐ B. Compilation succeeds and if we enter 'B' at the prompt we get the output as, ASCII value of B is 66.
- ☐ C. In this code try/catch box is a must.
- ☐ D. Compilation fails due to error on line 7.
- ☐ E. Compilation fails due to error on line 9.

Given the following code :

```
1. import java.io.*;
2.
3. class Co {
4.
5.     public static void main(String args [ ] ) {
6.         Console con = System.console();
7.         char [ ] c = con.readPassword("Enter the password : ");
8.         System.out.write("Your password is : ");
9.         for ( int i :c ) {
10.             System.out.write(i);
11.             System.out.flush();
12.         }
13.     }
14. }
```

Note: assume that you have access to console object.

Which option is true?

Please select :

- ☐ A. Compilation succeeds and will prompt to enter a password and then it'll print the password.
- ☐ B. Compilation succeeds and will prompt to enter a password but then it won't print the password.
- ☐ C. Compilation fails as there is no "write()" method defined.
- ☐ D. Compilation fails due to error on line 8.
- ☐ E. Compilation fails due to error on line 10.

Given the following code:

```
1. import java.io.*;
2.
3. class Co {
4.     public static void main(String args[])throws IOException {
5.         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
6.         String input;
7.         do {
8.             input = br.readLine();
9.             if ( input.equalsIgnoreCase("End") )
10.                break;
11.            else {
12.                System.out.print(input);
13.            }
14.        } while(true);
15.    }
16. }
```

Which option is true?

Please select :

- ☐ A. Compilation succeeds and will prompt to enter a data and then it'll print the entered line till we enter "end" as data.
- ☐ B. Compilation fails as there is no constructor in the BufferedReader class which takes InputStreamReader object as parameter.
- ☐ C. Compilation fails as we didn't handle the IOException of "readLine()" method at line 8.
- ☐ D. Compilation fails due to error on line 8 as the "readLine()" method returns array of characters.
- ☐ E. If we enter "eNd" in the prompt, "eNd" will be printed at the console and the program will exit.

You want to append some more data to the abc.txt file which already contains information. Insert the appropriate code excerpts at #1 in the given code in order to achieve the given objective.

```
import java.util.regex.*;
public class Pattern1
{
    public static void main(String [ ] args) throws Exception
    {
        try
        {
            #1
            out.close();
        } catch (IOException e)
        { e.printStackTrace(); }
    }
}
```

Please select :

- ☐ A. `BufferedWriter out = new BufferedWriter(new FileWriter("abc.txt", false));`
`out.append("world");`
- ☐ B. `BufferedWriter out = new BufferedWriter(new FileWriter("abc.txt"));`
`out.write("world");`
- ☐ C. `BufferedWriter out = new BufferedWriter(new FileWriter("abc.txt", true));`
`out.write("world");`
- ☐ D. `FileWriter out = new FileWriter(new BufferedWriter("abc.txt", true));`
`out.write("world");`

Given that `c` is a reference to a valid `java.io.Console` object, which two code fragments read a line of text from the console?

(Choose two options.)

Please select :

- ☐ A. `String s = c.readLine();`
- ☐ B. `char[] c = c.readLine();`
- ☐ C. `String s = c.readConsole();`
- ☐ D. `char[] c = c.readConsole();`
- ☐ E. `String s = c.readLine("%s", "name ");`
- ☐ F. `char[] c = c.readLine("%s", "name ");`

Given :

```
1. import java.io.Console;  
2. class Whizlab{  
3.  
4.     public static void main(String args[]){  
5.         Console con = System.console();  
6.         String uname = con.readLine("User Name: ");  
7.         char []p = con.readPassword("Password : ");  
8.  
9.         System.out.println("User name : "+ uname.toString());  
10.        System.out.print("Password  :");  
11.  
12.            for(char c:p){  
13.                System.out.print(c);  
14.            }  
15.        }  
16. }
```

Note: Assume that you have access to console object.

Which statement is true?

Please select :

- ☐ A. Compilation succeeds and will give prompt to enter user name and password.
- ☐ B. Compilation fails due to an error on line 6.
- ☐ C. Compilation fails due to an error on line 7.
- ☐ D. Compilation fails due to an error on line 9.
- ☐ E. Compilation will succeed and will only give prompt to enter user name.

Given :

```
1. import java.io.*;
2.
3. class Whizlab {
4.     public static void main(String args[])throws IOException {
5.         byte []b = new byte[10];
6.         InputStream in = System.in;
7.         int i = in.read(b);
8.
9.         for(byte c : b){
10.             System.out.print((char)c);
11.         }
12.         in.close();
13.     }
14. }
```

Which statement is true?

Please select :

- ☐ A. Compilation succeeds and if we enter "abcdefghijk" the output will be "abcdefghijk".
- ☐ B. Compilation succeeds and if we enter "abcdefghijklm" the output will be "abcdefghij".
- ☐ C. Compilation fails due to error on line 6 as the field "in" in java.lang.System class is not an InputStream.
- ☐ D. Compilation fails due to error on line 7 as there is no "read()" method which takes byte array as parameter in InputStream objects.
- ☐ E. Compilation fails as we haven't used try/catch box for InputStreams' "read()" and "close()" methods.

What statement is true?

Please select :

- ☐ A. We can use `print()` , `println()` and `write()` methods in `java.lang.System` class for outputting string.
- ☐ B. `Java.lang.System` class has a static field called as “err” of type `InputStream`.
- ☐ C. `Java.lang.System` class has a static field called as “in” of type `PrintStream`.
- ☐ D. `Java.lang.System` class has a static field called as “out” of type `PrintStream`.
- ☐ E. None of above.

Which can be used to fill the blank?

```
BufferedWriter br = new BufferedWriter( _____ );
```

Please select :

- ☐ A. new Writer("file.txt")
- ☐ B. new FileWriter("file.txt")
- ☐ C. ("file.txt")
- ☐ D. new File("file.txt")
- ☐ E. Paths.get("file.txt")

Given :

```
1. import java.io.FileInputStream;
2. //Codes
3. public class Stream{
4.     public static void main(String[] args) throws IOException {
5.
6.         FileInputStream in = null;
7.         FileOutputStream out = null;
8.
9.         try {
10.             in = new FileInputStream("source.txt");
11.             out = new FileOutputStream("dest.txt");
12.             int c;
13.
14.             while ((c = in.read()) != -1) {
15.                 out.write(c);
16.             }
17.         } finally {
18.             if (in != null) {
19.                 in.close();
20.             }
21.             if (out != null) {
22.                 out.close();
23.             }
24.         }
25.     }
26. }
```

Which statements are true? (Choose 2)

Please select :

- ☐ A. We have to import java.io.FileOutputStream and java.io.IOException Compilation to succeed.
- ☐ B. Importing only java.io.FileOutputStream is enough Compilation to succeed.
- ☐ C. Importing only java.io.IOException is enough Compilation to succeed.
- ☐ D. java.io.FileInputStream is enough Compilation to succeed.
- ☐ E. Changing import java.io.FileInputStream; to import java.io.*; will make this code works.

Given :

```
1. import java.io.IOException;
2. import java.io.PrintWriter;
3.
4. class Whizlab {
5.     public static void main(String args[]) throws IOException{
6.         PrintWriter pw = new PrintWriter("file.txt");
7.         pw.print("Whiz");
8.         pw.print(new char[]{'l','a','b'});
9.         pw.println();
10.        pw.flush();
11.        pw.close();
12.    }
13. }
```

What would be the content of the file.txt after executing above program?

Please select :

- ☐ A. Whiz
- ☐ B. Whizlab
- ☐ C. An Exception.
- ☐ D. Compilation fails due to line 9.
- ☐ E. Compilation fails due to multiple errors.

Given :

```
1.      import java.io.*;
2.
3.      public class Whizlab{
4.
5.          public static void main(String[] args) {
6.              int i = 123;
7.              try {
8.                  FileOutputStream out = new FileOutputStream("test.txt");
9.                  ObjectOutputStream oout = new ObjectOutputStream(out);
10.                 //insert here
11.             }catch (Exception ex) {
12.                 ex.printStackTrace();
13.             }
14.         }
15.     }
```

Which inserted at line 10, will write value of I to the test.txt file?

Please select :

- ☐ A. oout.write(i);
- ☐ B. oout.write(new Integer(i));
- ☐ C. oout.writeObject(i);
- ☐ D. oout.print(i);
- ☐ E. oout.writeln(i);