



[Fall 2020] WE_Mid (Nov 5)

Questions Responses

Total points: 30

Web Engineering - Online mid term exam Fall 2020

Mid Term Exam

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Which of the following is used generally for reading the content of the database?

1 points

- ☐ boolean execute()
- ☒ ResultSet executeQuery()
- ☐ int executeUpdate()
- ☐ None of the mentioned

Which of the method of ArrayList class is used to obtain present capacity of an object?

1 points

- ☒ size()
- ☐ length()
- ☐ capacity()
- ☐ index()

What will be the output of the following Java program?

1 points

```
import java.util.*;
class ArrayList
{
    public static void main(String args[])
    {
        ArrayList obj = new ArrayList();
        obj.add("A");
        obj.add("B");
        obj.add("C");
        obj.add(1, "D");
        System.out.println(obj);
    }
}
```

☐ [A, B, C, D]

☒ [A, D, B, C]

☐ [A, D, C]

☐ [A, B, C]

What will be the output of the following Java program?

1 points

```
import java.util.*;
class Output
{
    public static void main(String args[])
    {
        ArrayList obj = new ArrayList();
        obj.add("A");
        obj.add(0, "B");
        System.out.println(obj.size());
    }
}
```

☐ 0

☐ 1

☒ 2

☐ Any garbage value

What will be the output of the following Java code?

1 points

```
class multithreaded_programing
{
    public static void main(String args[])
    {
        Thread t = Thread.currentThread();
        System.out.println(t);
    }
}
```

- ☐ Thread[5,main]
- ☐ Thread[0,main,5]
- ☐ Thread[5,main,0]
- ☒ Thread[main,5,main]

Which of the following method is used to launch a new thread?

1 points

- ☐ run()
- ☒ start()
- ☐ launch()
- ☐ project()

Which of the following method is not used to suspend the execution of a thread?

1 points

- ☐ sleep()
- ☐ wait()
- ☐ yield()
- ☒ join()

Which of these are types of multitasking?

1 points

- ☐ Process based

- ☐ Thread based
- ☒ Process and Thread based
- ☐ None of the mentioned

What would be the output of following program?

2 points

```
import java.io.*;
class serialization
{
    public static void main(String[] args)
    {
        try
        {
            Myclass object1 = new Myclass("Hello", -7, 2.1e10);
            FileOutputStream fos = new FileOutputStream("serial");
            ObjectOutputStream oos = new ObjectOutputStream(fos);
            oos.writeObject(object1);
            oos.flush();
            oos.close();
        }
        catch(Exception e)
        {
            System.out.println("Serialization" + e);
            System.exit(0);
        }
        try
        {
            Myclass object2;
            FileInputStream fis = new FileInputStream("serial");
            ObjectInputStream ois = new ObjectInputStream(fis);
            object2 = (Myclass)ois.readObject();
            ois.close();
            System.out.println(object2);
        }
        catch (Exception e)
        {
            System.out.print("deserialization" + e);
            System.exit(0);
        }
    }
}
class Myclass implements Serializable
{
    String s;
    int i;
    double d;
    Myclass (String s, int i, double d)
    {
        this.d = d;
        this.i = i;
        this.s = s;
    }
}
```

☒ s=Hello; i=-7; d=2.1E10

☐ Hello; -7; 2.1E10

☐ s; i; 2.1E10

☐ Serialization

What is the syntax of abstract class in java?

1 points

☐ abstract A{}

☐ abstract class A

☒ abstract class A{}

☐ None of the mentioned

Which of the following is true about interfaces in java.

1 points

1) An interface can contain following type of members.

....public, static, final fields (i.e., constants)

....default and static methods with bodies

2) An instance of interface can be created.

3) A class can implement multiple interfaces.

4) Many classes can implement the same interface.

☒ 1, 3 and 4

☐ 1, 2 and 4

☐ 2, 3 and 4

☐ 1, 2, 3 and 4

When does Exceptions in Java arises in code sequence?

1 points

- ☒ Run Time
- ☐ Compilation Time
- ☐ Can Occur Any Time
- ☐ None of the mentioned

Which of these keywords is not a part of exception handling?

1 points

- ☐ try
- ☐ finally
- ☒ thrown
- ☐ catch

What will be the output of the following Java program?

1 points

```
class exception_handling
{
    public static void main(String args[])
    {
        try
        {
            System.out.print("Hello" + " " + 1 / 0);
        }
        catch(ArithmeticException e)
        {
            System.out.print("World");
        }
    }
}
```

- ☐ Hello
- ☒ World
- ☐ HelloWorld
- ☐ Hello World

What will be the output of the following Java program?

1 points

```
class exception_handling
{
    public static void main(String args[])
    {
        try
        {
            int a, b;
            b = 0;
            a = 5 / b;
            System.out.print("A");
        }
        catch(ArithmeticException e)
        {
            System.out.print("B");
        }
        finally
        {
            System.out.print("C");
        }
    }
}
```

- ☐ A
- ☐ B
- ☐ AC
- ☒ BC

What will be the output of the following Java program?

2 points

```

class exception_handling
{
    public static void main(String args[])
    {
        try
        {
            int i, sum;
            sum = 10;
            for (i = -1; i < 3 ;++i)
                sum = (sum / i);
        }
        catch(ArithmeticException e)
        {
            System.out.print("0");
        }
        System.out.print(sum);
    }
}

```

- ☐ 0
- ☐ 05
- ☒ Compilation Error
- ☐ Runtime Error

Which of the following is a super class of all errors and exceptions in the Java language?

1 points

- ☐ Catchable
- ☒ Throwable
- ☐ RunTimeExceptions
- ☐ None of the above

Which of the following class is used to read characters in a file?

1 points

- ☒ FileReader
- ☐ FileWriter

- ☐ FileInputStream
- ☐ InputStreamReader

State whether the following statements about the stream in Java. i) The two basic streams used are the input and output streams. ii) Filters are used to read data from one stream and write it to another stream.

1 points

- ☒ (i)True, (ii)True
- ☐ (i)True, (ii)False
- ☐ (i)False, (ii)True
- ☐ (i)False, (ii)False

Which exception is thrown by read() method?

1 points

- ☒ IOException
- ☐ InterruptedException
- ☐ SystemException
- ☐ SystemInputException

Which of the following class is used to read characters and strings in Java?

1 points

- ☒ BufferedReader
- ☐ StringReader
- ☐ BufferedStreamReader
- ☐ InputStreamReader

Which of the following access specifier can be used for a class so that its members can be accessed by a different class in the same package?

1 points

- ☐ Public

- ☐ Protected
- ☐ No Modifier
- ☒ All of the mentioned

Which of the following is an incorrect statement about packages?

1 points

- ☐ Package defines a namespace in which classes are stored
- ☐ A package can contain other package within it
- ☐ Java uses file system directories to store packages
- ☒ A package can be renamed without renaming the directory in which the classes are stored

What will be the output of the following Java program?

2 points

```
package pkg;
class display
{
    int x;
    void show()
    {
        if (x > 1)
            System.out.print(x + " ");
    }
}
class packages
{
    public static void main(String args[])
    {
        display[] arr=new display[3];
        for(int i=0;i<3;i++)
            arr[i]=new display();
        arr[0].x = 0;
        arr[1].x = 1;
        arr[2].x = 2;
        for (int i = 0; i < 3; ++i)
            arr[i].show();
    }
}
```

Note : packages.class file is in directory pkg;

☐ 1

☒ 2

☐ 0 1 2

Abstract class can have constructors and static methods?

2 points

☒ True

☐ false

☐ Abstract class can have constructors but can not have static methods.

☐ Abstract class can not have constructors but can have static methods.

Which of the following packages is used to includes utility classes like Calendar, Collection, Date?

1 points

☐ java.lang

☐ java.net

☐ java.awt

☒ java.util