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<u>Dashboard</u> / My courses / <u>CS 1103-01 - AY2023-T1</u> / 1 September - 7 September / <u>Self-Quiz Unit 1</u>
            Started on Tuesday, 6 September 2022, 6:35 PM
                  State Finished
        Completed on Tuesday, 6 September 2022, 6:36 PM
           Time taken 50 secs
                 Marks 7.00/7.00
                 Grade 10.00 out of 10.00 (100%)
   Question 1
   Correct
   Mark 1.00 out of 1.00
    A switch statement, most often has the form:
    switch (expression) {
    case constant-1:
    statements-1
    break;
    }
    The value of the expression can be:
    i. int
    ii. short
    iii. byte
    iv. Primitive char
    v. Enum
    vi. String
    vii. Real number
    Select one:
     O a. iii, iv and v
     O b. i, ii, iii and iv
     o c. All, except vii
     O d. vi and vii
     O e. All of the types listed
    The correct answer is: All, except vii
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Question 2
Correct
Mark 1.00 out of 1.00
 The following code writes out the name of a day of the week depending on the value of day. True or False?
 String dayName = null;
 switch (day) {
 case 1:
 dayName = "Sunday";
 break;
 case 2:
 dayName = "Monday";
 break;
 case 3:
 dayName = "Tuesday";
 break;
 case 4:
 dayName = "Wednesday";
 break;
 case 5:
 dayName = "Thursday";
 break;
 case 6:
 dayName = "Friday";
 break;
 case 7:
 dayName = "Saturday";
 break;
```

Select one:

True

False

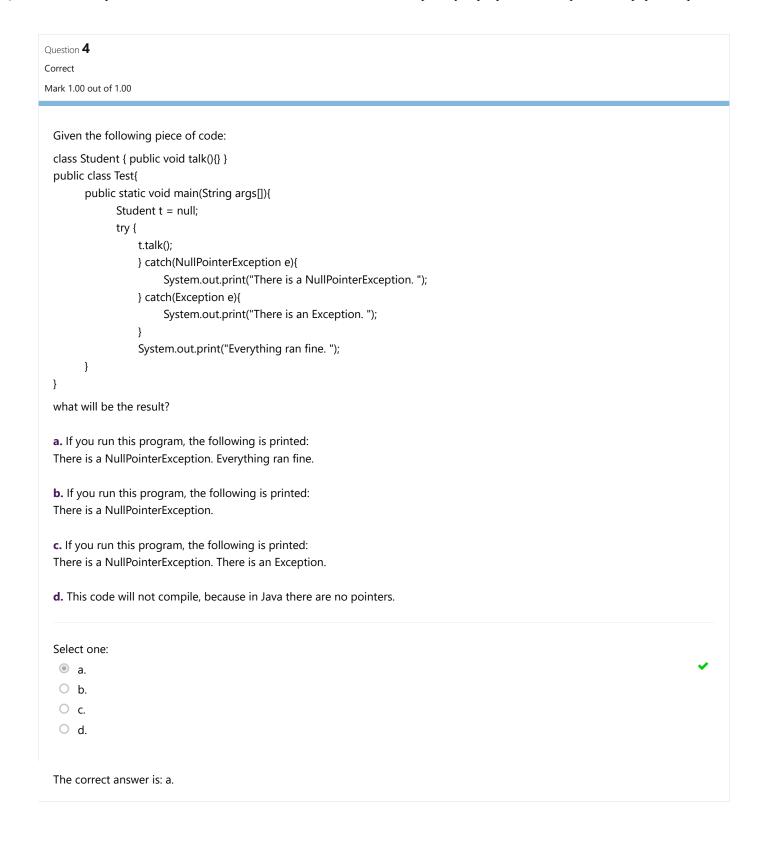
The correct answer is 'True'.

System.out.println(dayName);

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Question 3
Correct
Mark 1.00 out of 1.00
 Given the following piece of code:
 class CostCalculationException extends Exception{}
 class Item {
      public void calculateCost() throws CostCalculationException {
           throw new CostCalculationException();
           //...
     }
 }
 class Company {
      public void payCost(){
           new Item().calculateCost();
 }
 Which of the following statements is correct?
 Select one or more:
  ☐ a. This code will compile without any problems.
  □ b. This code will compile if in method payCost()you return a boolean instead of void.
  c. This code will compile if you add a try-catch block in payCost()
  d. This code will compile if you add throws CostCalculationException in the signature of method payCost().
 The correct answers are: This code will compile if you add a try-catch block in payCost(), This code will compile if you add throws
```

CostCalculationException in the signature of method payCost().



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Question 5
Correct
Mark 1.00 out of 1.00
```

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Consider the following code (assume that comments are replaced with real code that works as specified):
public class TestExceptions {
  static void e() {
   // Might cause any of the following unchecked exceptions to be
   // thrown:
   // Ex1, Ex2, Ex3, Ex4
  static void April() {
   try {
      e();
   } catch (Ex1 ex) {
      System.out.println("April caught Ex1");
   }
  }
  static void March() {
   try {
      April();
   } catch (Ex2 ex) {
      System.out.println("March caught Ex2");
      // now cause exception Ex1 to be thrown
   }
  }
  static void February() {
   try {
      March();
   } catch (Ex1 ex) {
      System.out.println("February caught Ex1");
   } catch (Ex3 ex) {
      System.out.println("February caught Ex3");
   }
  }
  static void January() {
   try {
      February();
   } catch (Ex4 ex) {
      System.out.println("January caught Ex4");
      // now cause exception Ex1 to be thrown
   } catch (Ex1 ex) {
      System.out.println("January caught Ex1");
   }
  }
  public static void main(String[] args) {
    January();
```

}	
	e now that this program is run four times. The first time, method e throws exception Ex1, the second time, it throws
	ion Ex2, etc.
What a	re the results of the four runs (a or b)?
a.	
1. T	he program prints:
Δ	pril caught Ex1
2. T	he program prints:
N	March caught Ex2
F	ebruary caught Ex1
3. T	he program prints:
F	ebruary caught Ex3
4. T	he program prints:
J	anuary caught Ex4
Δ	and execution stops due to an uncaught exception Ex1 thrown in main()
b.	
1. T	he program prints:
Α	pril caught Ex3
2. T	he program prints:
N	March caught Ex2
F	ebruary caught Ex2
3. T	he program prints:
N	March caught Ex3
4. T	he program prints:
J	anuary caught Ex4
Δ	and execution stops due to an uncaught exception Ex1 thrown in main()
Select	
a.	🕶
O b.	
The co	rrect answer is: a.

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exception.

Jump to			
nit 1 ►			
Mark 1.00 out of 1.00			
Select one or more:			
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*			
*			
•			

The correct answers are: The class Throwable represents all possible objects that can be thrown by a throw statement and caught by a catch clause in a try...catch statement., The thrown object must belong to the class Throwable or to one of its (many) subclasses such as Exception and RuntimeException., The object carries information about an exception from the point where the exception occurs to the point where it is caught and handled., A Throwable contains a snapshot of the execution stack of its thread at the time it was created.

Correct Mark 1.00 out of 1.00 "Subclasses of the class Exception which are not subclasses of RuntimeException require mandatory exception handling." What are the practical implications of this statement? Select one or more: a. If a method can throw such an exception, then it must declare this fact by adding a throws clause to the method heading. b. If a routine includes any code that can generate such an exception, then the routine must deal with the exception. c. The routine cannot handle the exception by adding a throws clause to the method definition. d. The routine can handle the exception by including the code in a try statement that has a catch clause to handle the exception. The correct answers are: If a method can throw such an exception, then it must declare this fact by adding a throws clause to the method heading, If a routine includes any code that can generate such an exception, then the routine must deal with the

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exception., The routine can handle the exception by including the code in a try statement that has a catch clause to handle the