Quiz 2

This quiz tests your knowledge of Java language semantics. Get a print out of this when you come to the class.

* First try answering without running the program.
* Then run the program to check if your understanding was indeed correct.
* Enter both the answers in the last column and submit.

|  |  |  |
| --- | --- | --- |
| **Concept** | **Program** | **Your answer first, followed by the actual answer** |
| Dynamic  dispatch/  Method  overloading  / Runtime  Polymorphi  sm |  | EXPECTED:  no output because there are no body for the two methods  OUTPUT:  nothing |
| Dynamic dispatch/method overloading |  | EXPECTED :  Error  because we cannot overload methods by difference in their return type  OUTPUT :  duplicate method type(int) |
| Instance method accessing static variable & static method |  | PREDICTED:  Error  here non static method can access a static variable so var can beassigned to 0 and then we called the staticMethod.So, we get the output as static method  OUTPUT:  static method |
| Static method accessing instance variable & instance methoods |  | PREDICTED :  Error  here both the method and var are not static so,they can not be accessed to the static void main()  OUTPUT :Cannot make a static reference to the non-static field var  Cannot make a static reference to the non-static method method() from the type NTest |
| Working with null object |  | PREDICTED :  Error  here we did not allocate memory to the object r .So we are not able to initialize value for x  OUTPUT :  The local variable r may not have been initialized |
| Working with null array |  | PREDICTED :  Error  here we did not allocate memory to the array S .So we are not able to initialize a value for x  OUTPUT :  Syntax error, insert "VariableDeclarators" to complete LocalVariableDeclaration |
| Working with null array element |  | PREDICTED :  Error  here we have allocated memory for the object array but we have not allocated memory for the individual objects  OUTPUT :  Exception in thread "main"java.lang.NullPointerException |
| Crossing array boundary |  | PREDICTED :  Error  we did not allocate memory for the individual objects.So,we are not able to intialize them  OUTPUT :  Exception in thread "main"java.lang.NullPointerException |
| Default Constructor |  | PREDICTED :  Error  here we have written constructor to only int x we did not written for default constructor  OUTPUT :  The constructor V() is undefined |
| Private constructor |  | PREDICTED :  Error  here we have declared the constructor as private.So we cannot access that construct  OUTPUT :  he constructor S() is not visible |
| Empty.java file name |  | PREDICTED : we can make the class but it does not have a scope similar to public  if we compile it with javac .java without giving the file name it cannot access the file.so it is not complied  OUTPUT : file not found |
| Static block with main() |  | PREDICTED:  From static block  Hello main  (as static block is called first it will be printed first)  OUTPUT :  From static block  Hello main |
| Static bock without main() |  | PREDICTED :  From static block  OUTPUT :  Main method not found in class quiz.ZTest, please define the main method as:  public static void main(String[] args) |

Name: Namburu.bala sai pavan sri harshith.

Roll No: AM.EN.U4CSE17507.