Question1: How many ways to overload a method? List out an invalid case of method overloading?

**Answer:** In Java, there are three main ways to overload a method:

* By changing the number of parameters.
* By changing the data types of parameters.
* By changing the order of the parameters of methods.

Question 2: Explain in detail the meaning of **code lines 9, 10** in BasicRateTax class?

**Answer:**

The code in line 9 is used to declare the ASIC\_TAX\_RATE constant with the value 0.20.

The code in the 10th line is a Doc Comment used to describe calcTax() method.

Question 3: Describe about piece of code **Double.parseDouble(args[0]),**what is it used for?

**Answer:** The code Double.parseDouble(args[0]) is used to convert a string representation of a double value, which is passed in as a command-line argument, into an actual double value. In the given code, args[0] is the first command-line argument passed to the Java program, which is assumed to be a string representation of a double value. The parseDouble() method is used to convert this string into a double value, which is then assigned to the variable grossIncome.