**CSA0961-JAVA PROGRAMMING:**

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6.2 Practice

1. Describe the difference between a syntax error, a logic error, and an exception

Code:

Syntax error:

int number = 10

logic error:

int a = 5;

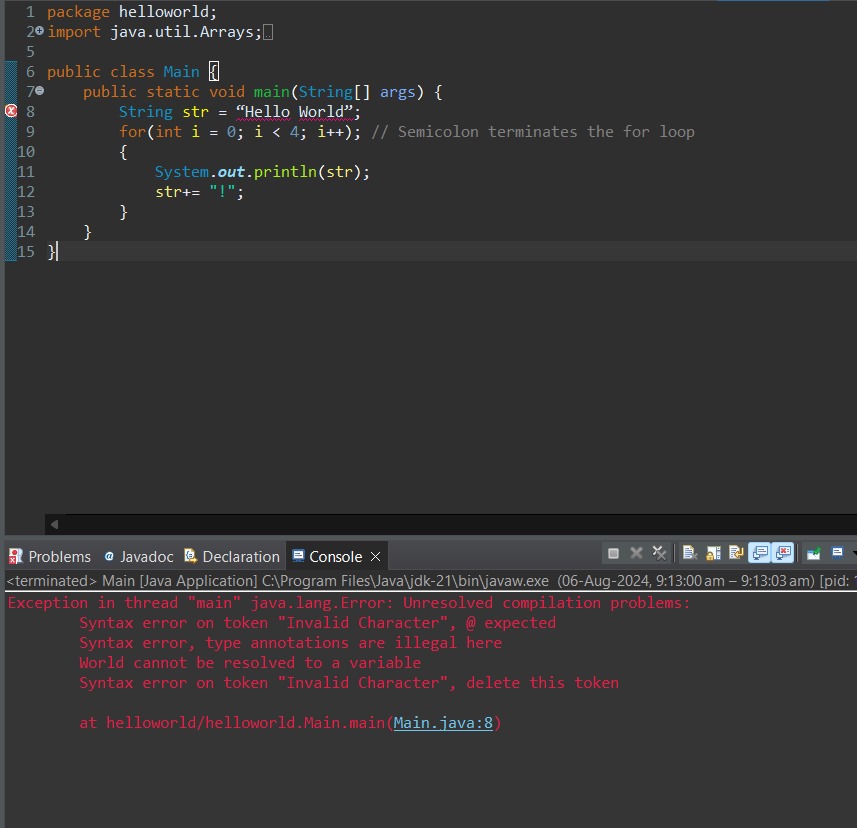
int b = 3;

int result = a - b;

exception:

int[] arr = new int[5];

int value = arr[10];



1. What is wrong with the following code? It should print "Hello World!" four times to the screen

Code:

String str = “Hello World”;

for(int i = 0; i < 4; i++);

{

System.out.println(str);

str+= ”!”;

}

1. Describe an exception that you have experienced in your program before. Explain how it could be handled with a try/catch block of code.

Code:

int[] arr = new int[5];

System.out.println(arr[10]);

1. Write a segment of code that has:

a. A syntax error

b. A logic error

c. An exception

syntax error:

int number = 10;

logic error:

int a = 5;

int b = 3;

int result = a - b;

exeption:

int[] arr = new int[5];

System.out.println(arr[10]);

1. What is the difference between a checked exception and an unchecked exception?

Code:

Checked exeption:

try {

FileReader file = new FileReader("somefile.txt");

} catch (FileNotFoundException e) {

e.printStackTrace();

}

Unchecked exeption:

String str = null;

System.out.println(str.length());