**INTRODUCTION B**

**Source Code:**

**package** introduction;

**import** java.util.\*;

**public** **class** BSCS2\_Marasigan\_IntroductionB

{

**public** **static** **void** main(String[] args)

{

**int** choice=0;

**char** d ='N';

Scanner in = **new** Scanner(System.***in***);

**do**

{

System.***out***.print("INPUT STRING 1:\t");

String one = in.nextLine();

System.***out***.print("INPUT STRING 2:\t");

String two = in.nextLine();

String three = "String 3 does not have any value yet.";

**do**

{

System.***out***.print("\nOPTIONS:\n1. String Copy"

+ "\n2. String concatination\n3. String Comparison"

+ "\n4. Reverse a string input\n5. Convert a string input "

+ "(uppercase to lowercase & lowercase to upper case)"

+ "\n6. Toggle a string\n7. Exit\n\nEnter option [1..7]:\t");

choice = in.nextInt();

**int** ans = 0, ans2= 0;

String first, second;

**switch** (choice)

{

**case** 1: System.***out***.print("What String do you want to copy?"

+ "\n Please type String no. [1,2]: ");

ans = in.nextInt();

three = *answerFinder*(ans, one, two, three);

System.***out***.println("String 3 is: " + three);

**break**;

**case** 2: System.***out***.print("What String do you want to concatinate?"

+ "\n Please type two String nos. [1,2,3]: ");

ans = in.nextInt(); ans2 = in.nextInt();

first = *answerFinder*(ans, one, two, three);

second=*answerFinder*(ans2, one, two, three);

System.***out***.println(first.concat(second));

**break**;

**case** 3: System.***out***.print("What String do you want to compare?"

+ "\n Please type two String nos. [1,2,3]: ");

ans = in.nextInt(); ans2 = in.nextInt();

first = *answerFinder*(ans, one, two, three);

second=*answerFinder*(ans2, one, two, three);

*comparison*(first, second);

**break**;

**case** 4: System.***out***.print("What String do you want to reverse?"

+ "\n Please type String no. [1,2,3]: ");

ans = in.nextInt();

first = *answerFinder*(ans, one, two, three);

StringBuilder r = **new** StringBuilder();

r.append(first);

System.***out***.println(r.reverse());

**break**;

**case** 5: System.***out***.print("What String do you want to Convert?"

+ "\n Please type String no. [1,2,3]: ");

ans = in.nextInt();

first = *answerFinder*(ans, one, two, three);

System.***out***.println("Uppercase:\t" + first.toUpperCase()

+"\nLowercase:\t" + first.toLowerCase());

**break**;

**case** 6: System.***out***.print("What String do you want to Toggle?"

+ "\n Please type String no. [1,2,3]: ");

ans = in.nextInt();

first = *answerFinder*(ans, one, two, three);

System.***out***.println("\nThe toggled word is " + *toggler*(first));

**break**;

**case** 7: d = 'N'; **break**;

}

**if** (choice < 7)

{

System.***out***.print("\nWant to try other options? [Y/N]:\t");

String decide = in.next().toUpperCase();

d = decide.charAt(0);

}

}**while** (d == 'Y');

**if** (choice < 7)

{

System.***out***.print("Want to try other String input? [Y/N]:\t");

String decide = in.next().toUpperCase();

d = decide.charAt(0);

System.***out***.println();//just a space

}

in.nextLine();//fixes the skipping when loop by absorbing the line input of variable char

}**while** (d == 'Y');

*end*();

in.close();

}

**static** String answerFinder(**int** a, String one, String two, String three)

{

String str = "";

**switch** (a)

{

**case** 1: str = one; **break**;

**case** 2: str = two; **break**;

**case** 3: str = three; **break**;

}

**return** str;

}

**static** **void** comparison(String a, String b)

{

**int** result =a.compareTo(b);

**switch** (result)

{

**case** 0: System.***out***.println("0");

System.***out***.println("They are exactly similar!");

**break**;

**case** -32: System.***out***.println("-1");

System.***out***.println("It is similar, but it differs in Capitalization");

**break**;

**case** 32: System.***out***.println("1");

System.***out***.println("It is similar, but it differs in Capitalization");

**break**;

**default**: System.***out***.println("There are no similarities");

}

}

**static** String toggler(String choice)

{

String toggled = "";

**char** letter[] = choice.toCharArray();

**for** (**int** s = 0; s<letter.length; s++)

{ //There is a difference of 32(dec) between a Capital letter and its lower case

**if** (letter[s] >= 'A' && 'Z' >= letter[s])

{//if 'A' = 65, then 'a' is = 97 so adding 32 converts it to lower case

letter[s] = (**char**)((**int**)letter[s]+32);

}

**else** **if** (letter[s] >= 'a' && 'z' >= letter[s])

{//if 'a' = 97, then subtracting 32 will make it 65 which has the char value of 'A'

letter[s] = (**char**)((**int**)letter[s]-32);

}

toggled += letter[s];

}

**return** toggled;

}

**static** **void** end()

{

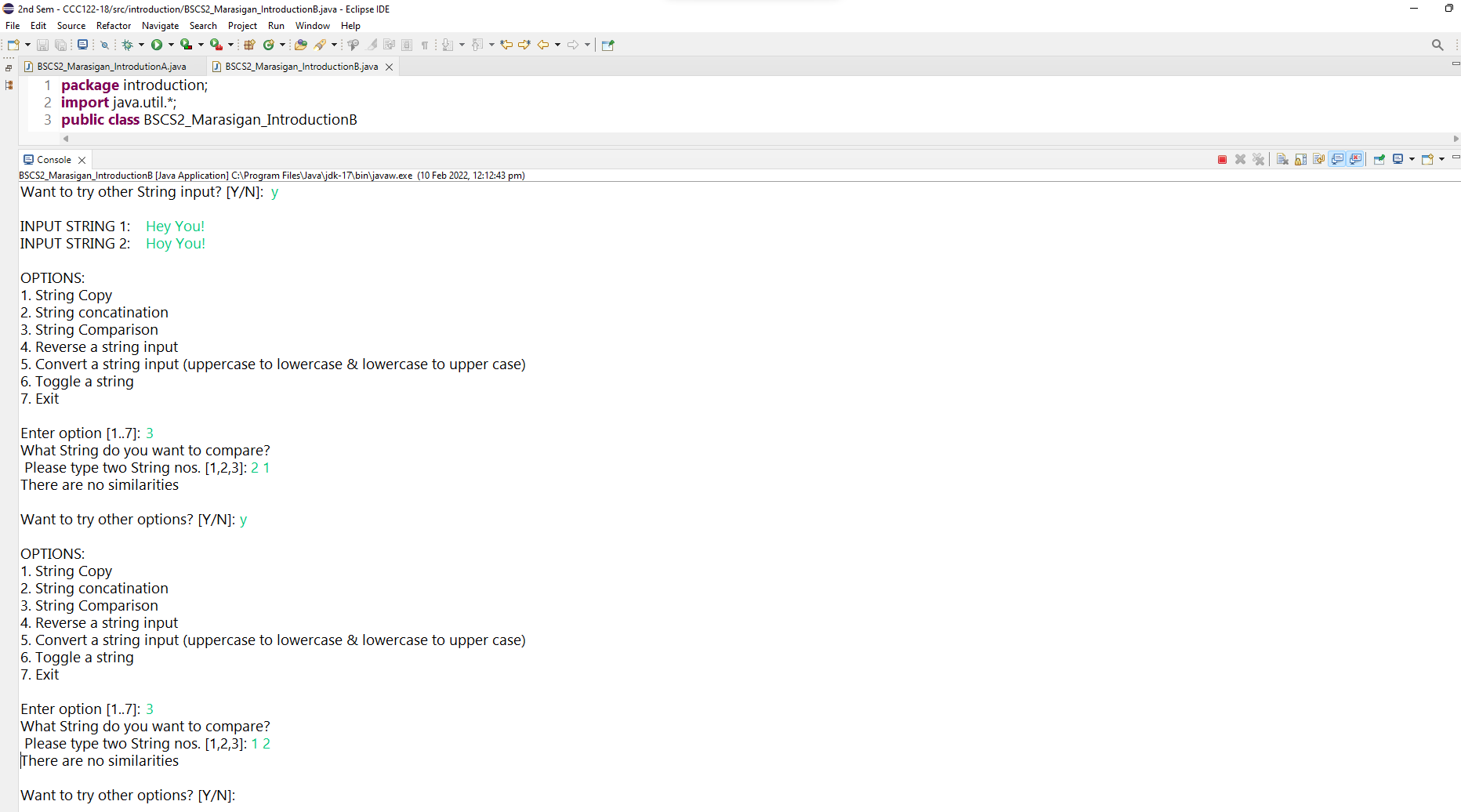
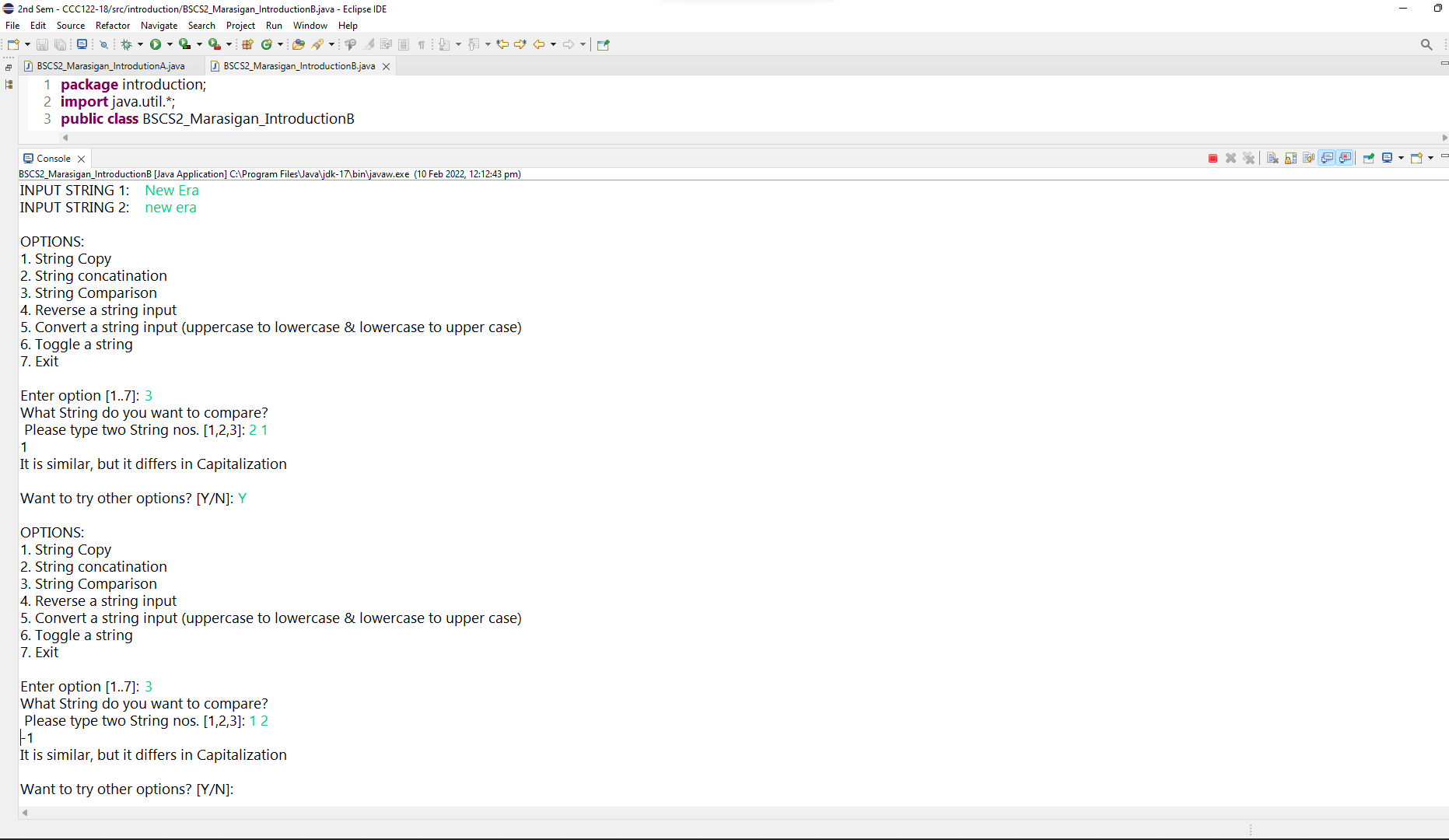
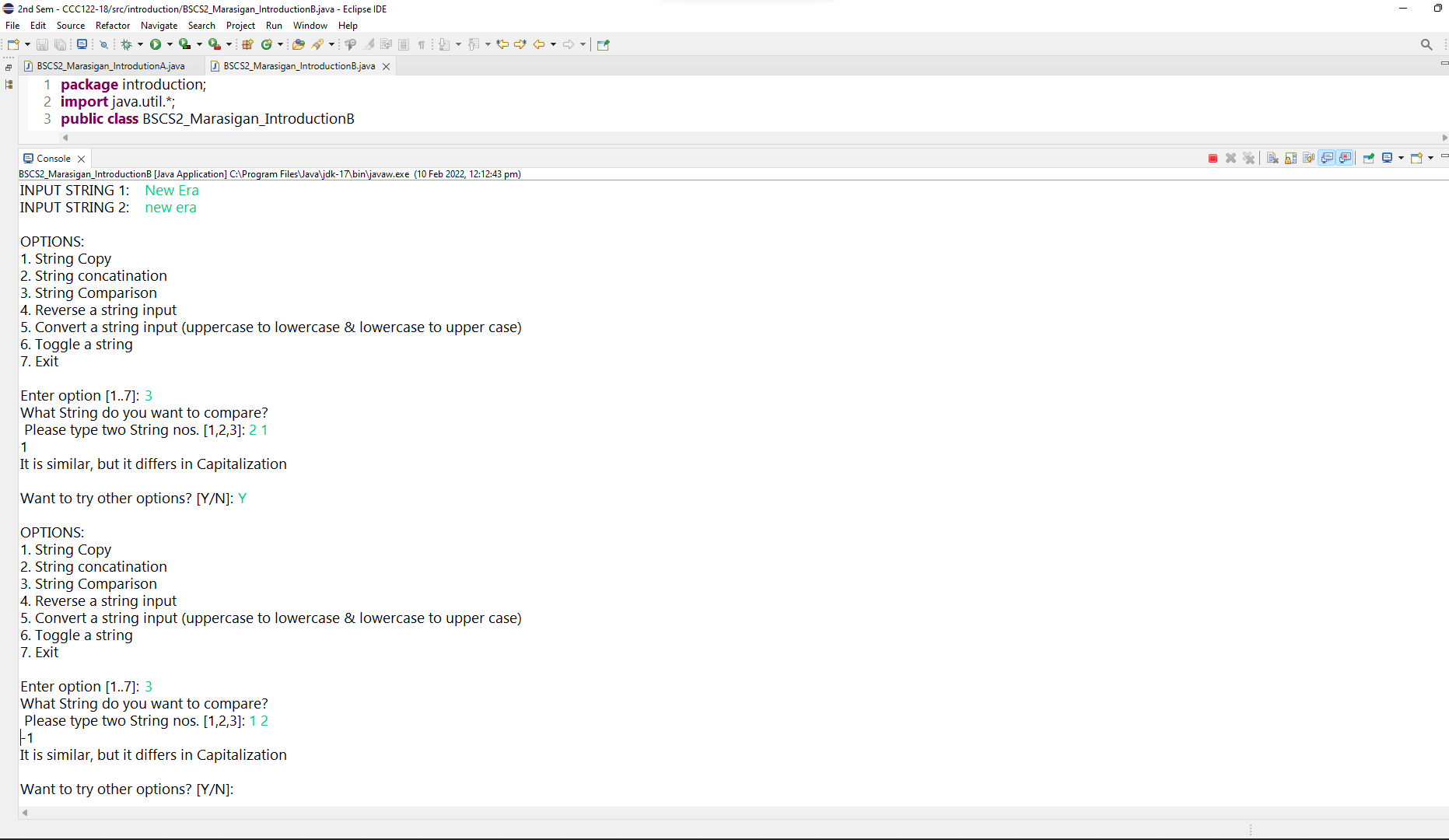
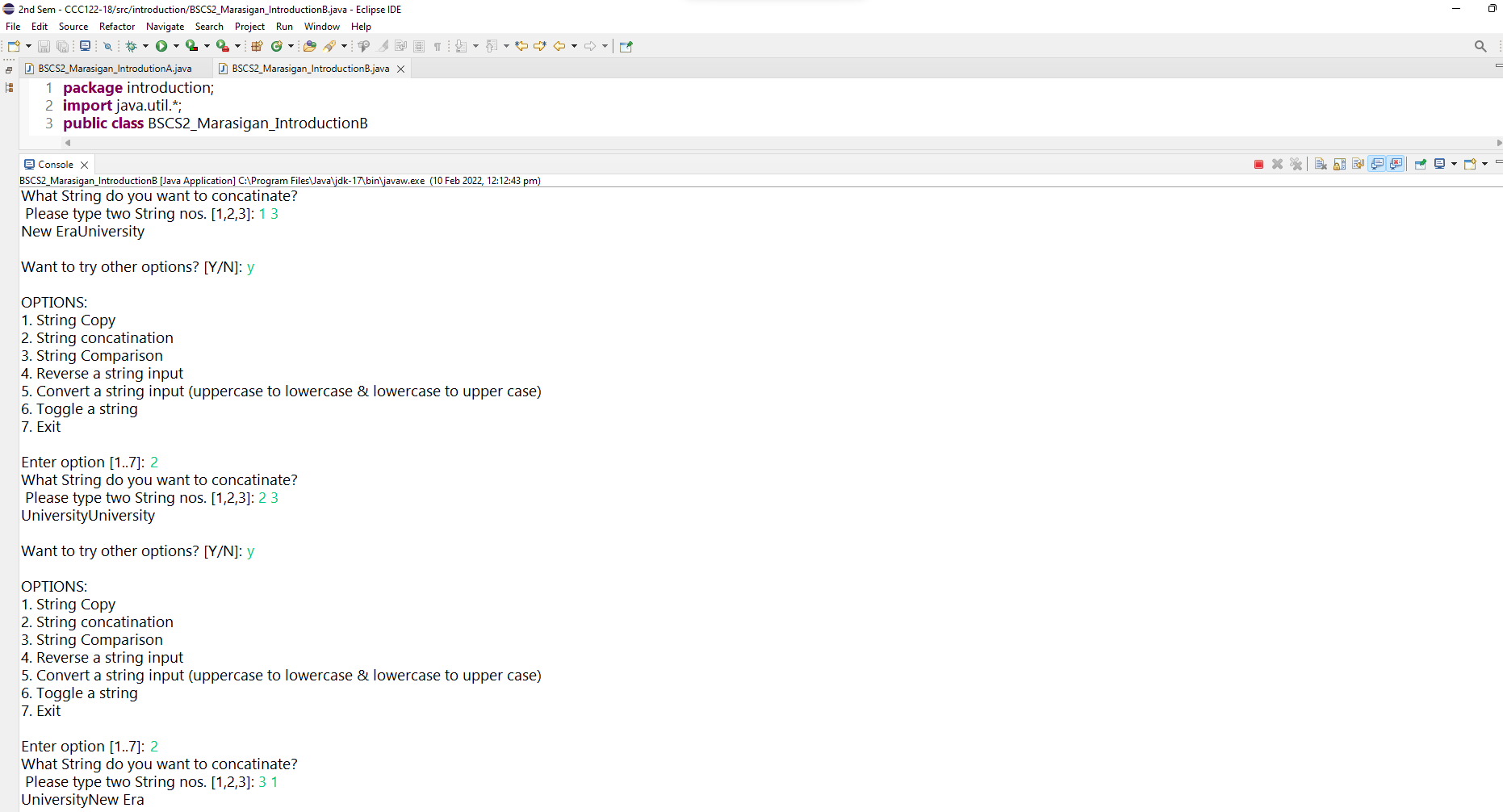
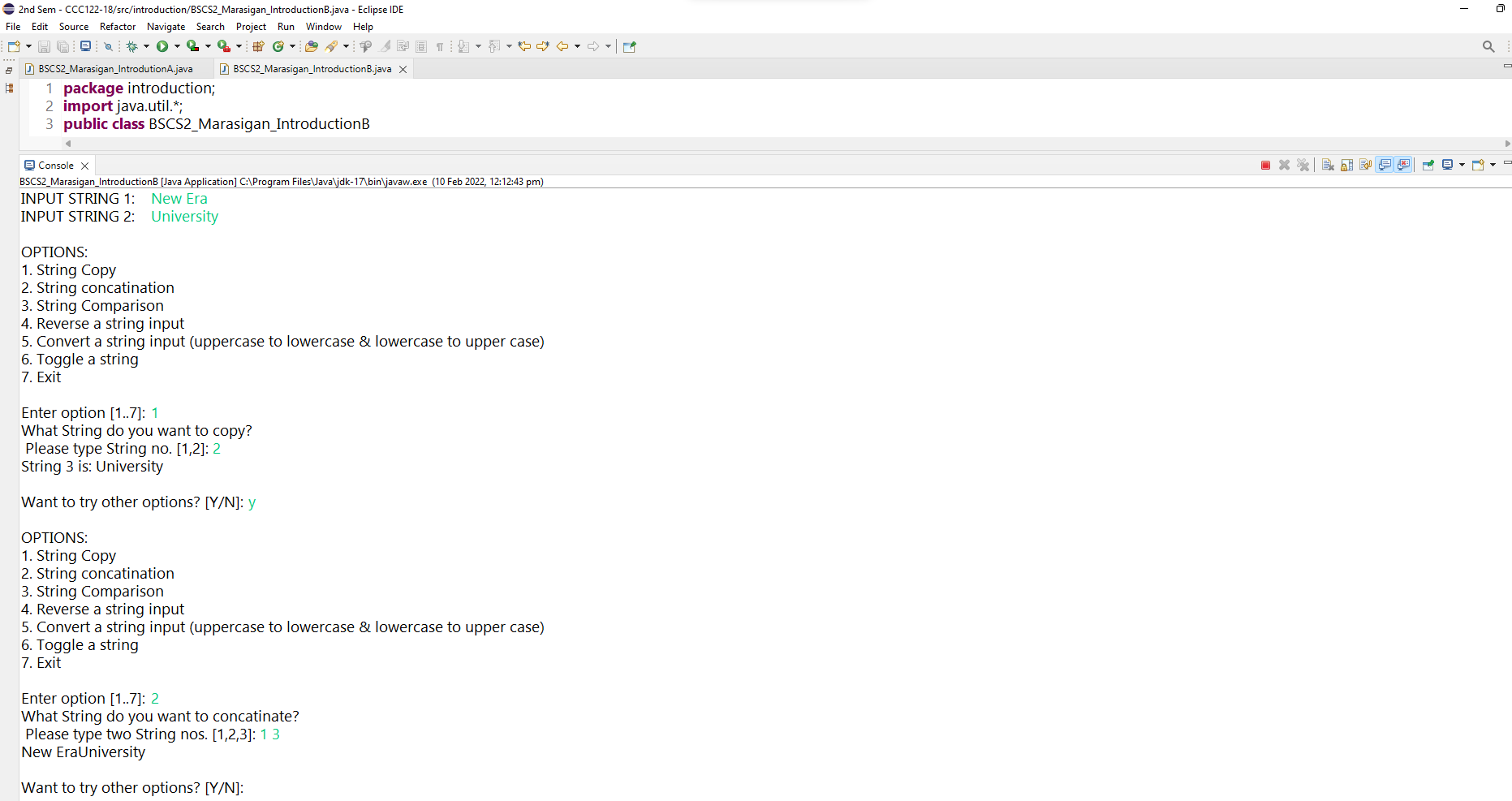
System.***out***.println("\n\t\tThank You po for Using my Program\n"

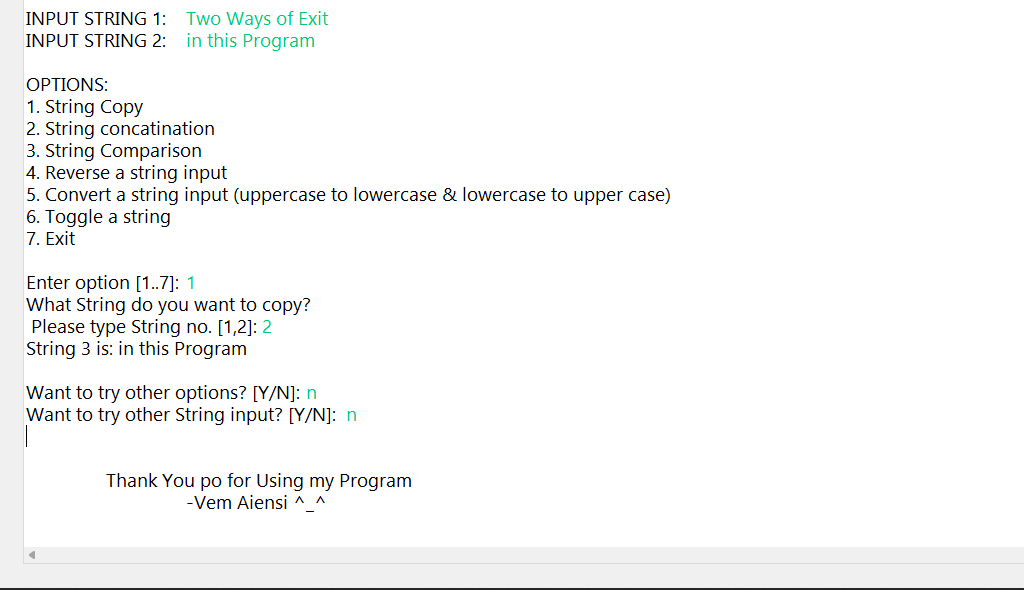
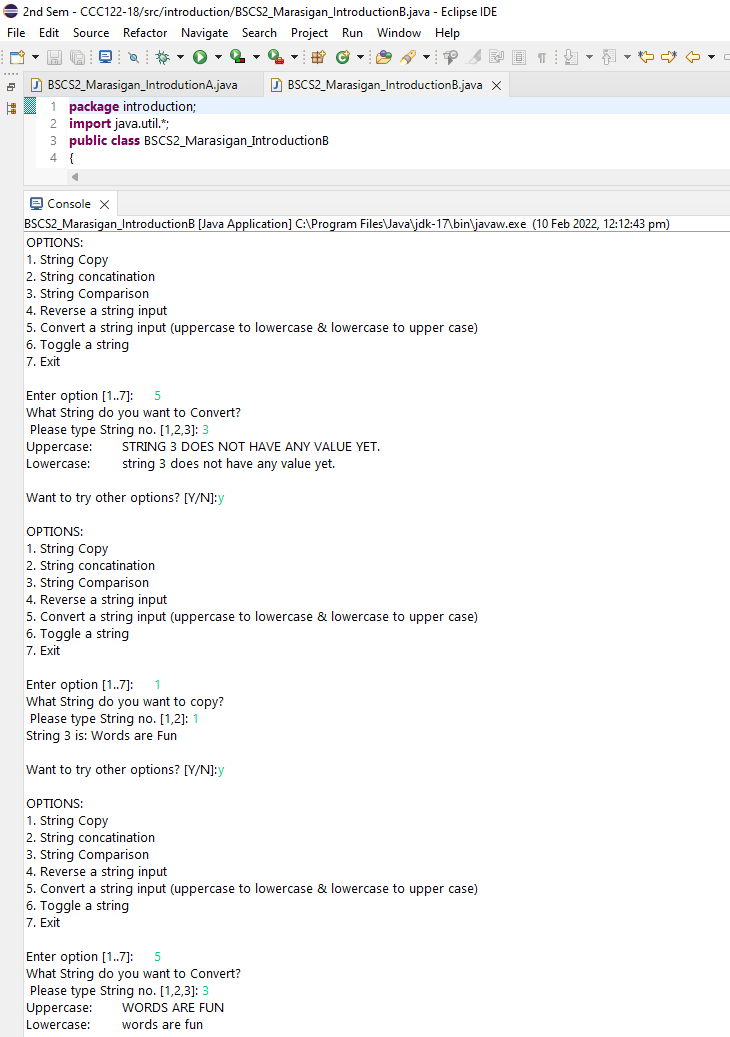
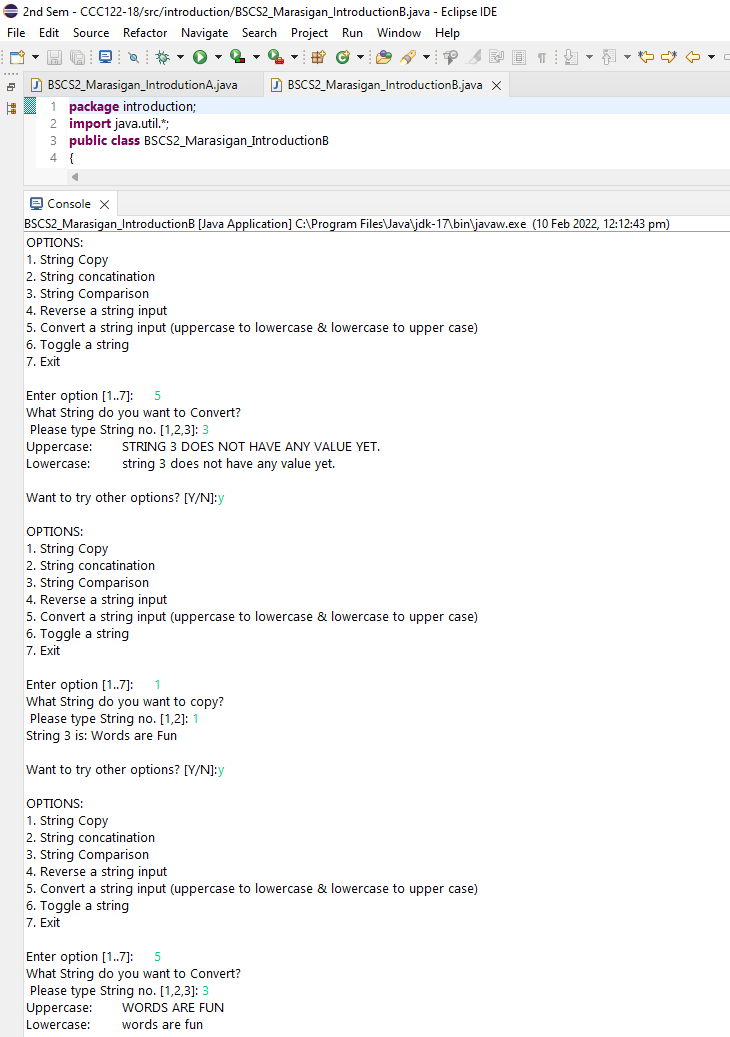
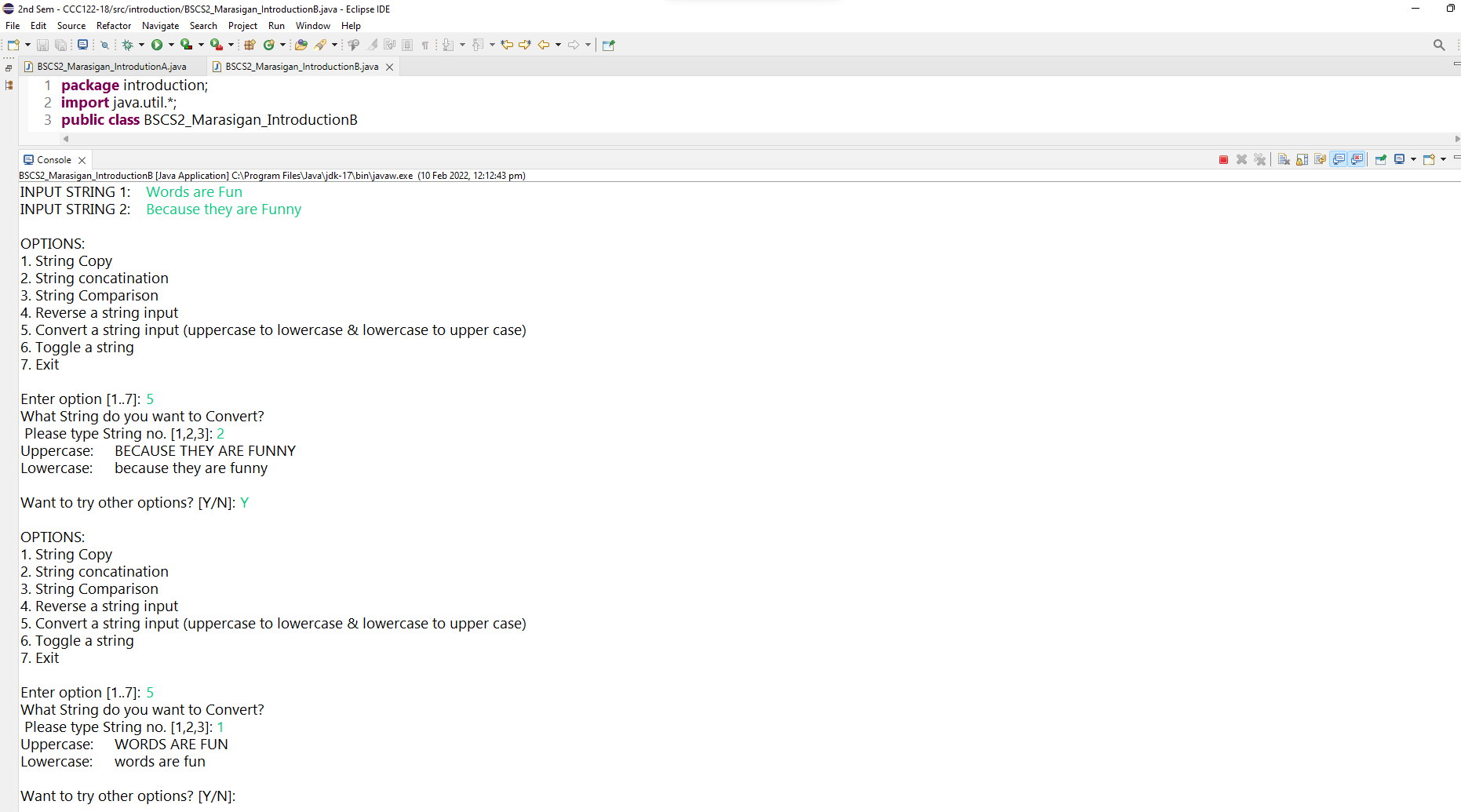
+ "\t\t\t\t-Vem Aiensi ^\_^");

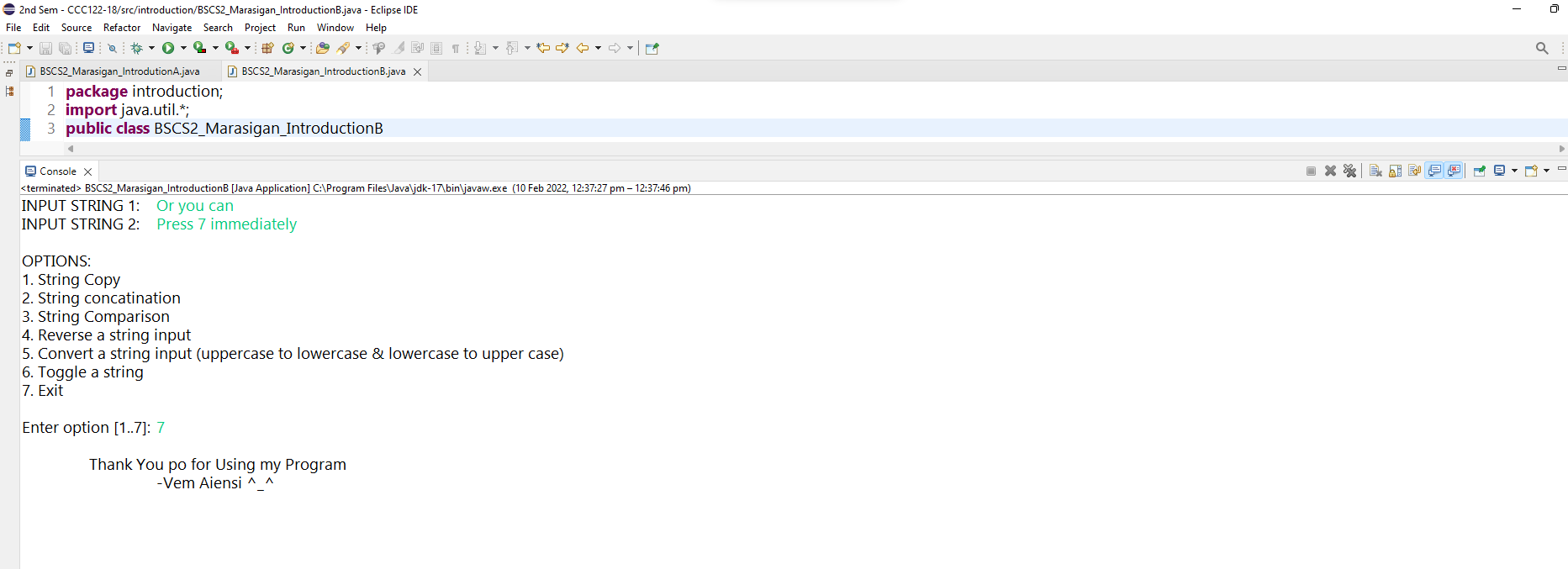
}

}

**Output:**

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