

**SWE2034 – Ruby Programming**

Guided By – **Dr Yogesh C**

Slot – **L5+L6**

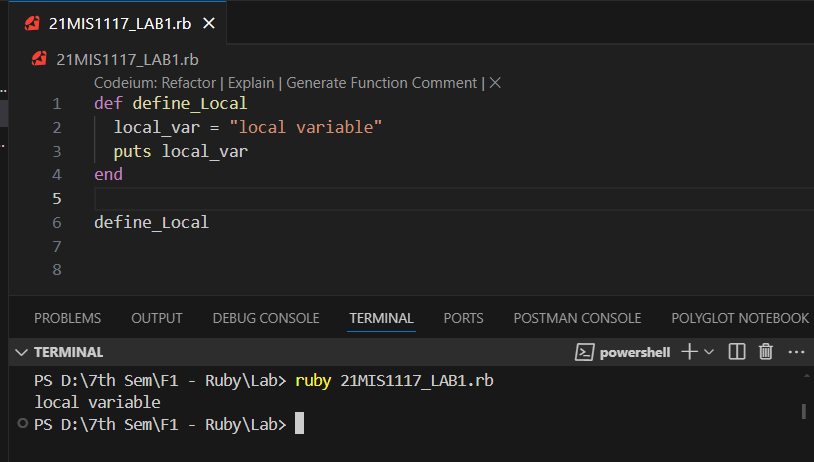
NAME: **VISHWANTH P**

REGISTER.NO: **21MIS1117**

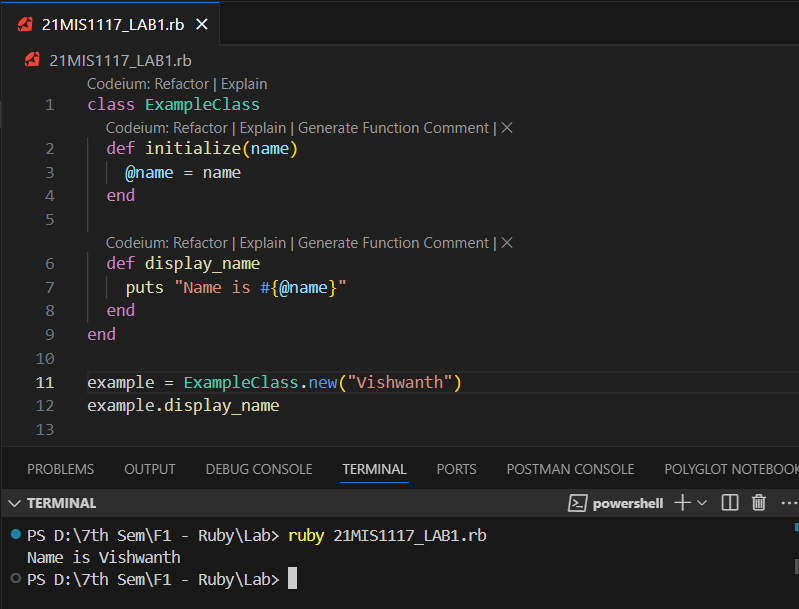
**Lab Assessment - 1**

1. **Introduction**
   1. **Variables and Methods**
      1. **Different Types of Variables and Scope**

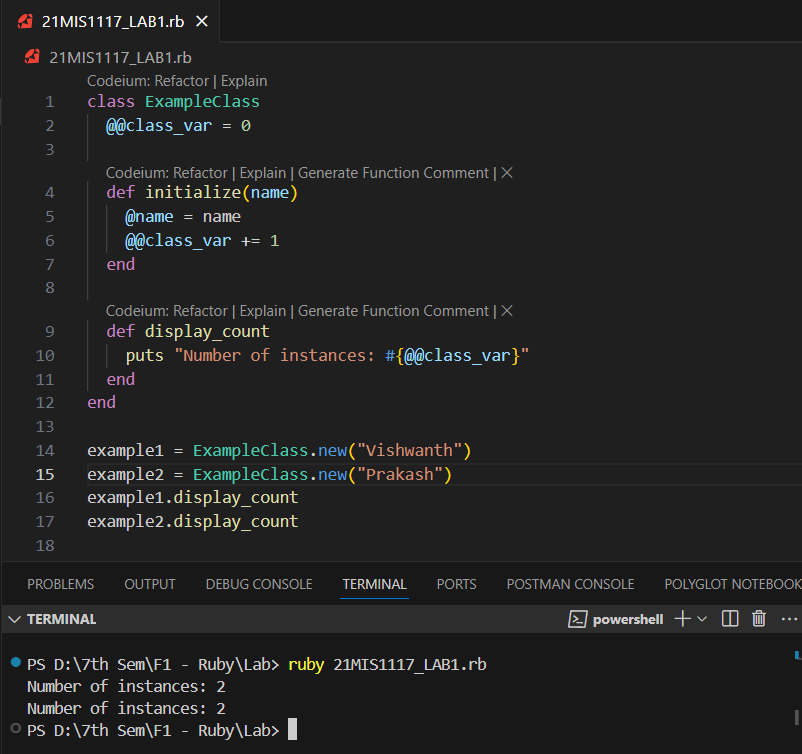
**Local Variable**

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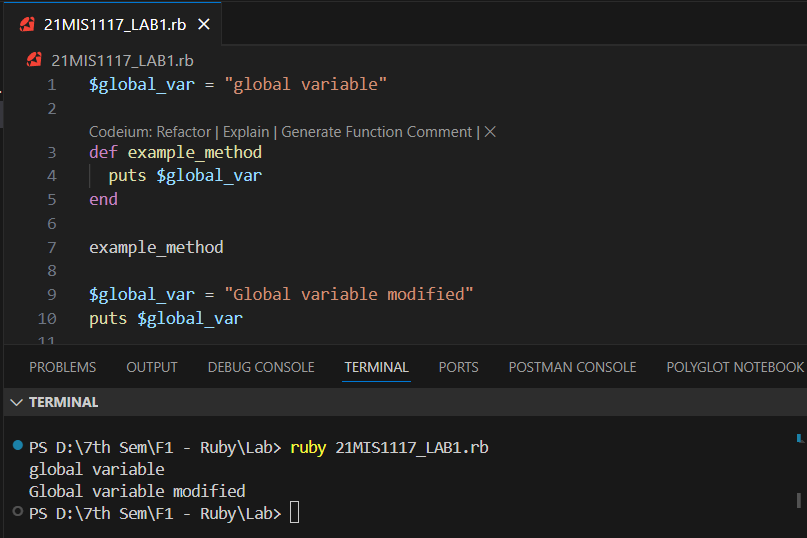
**Instance Variable**

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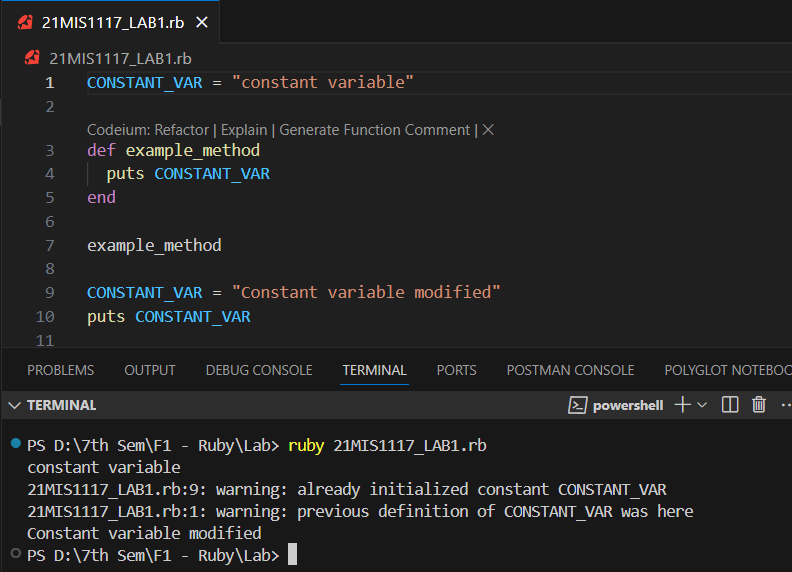
**Class Variable**

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**Global Variables**

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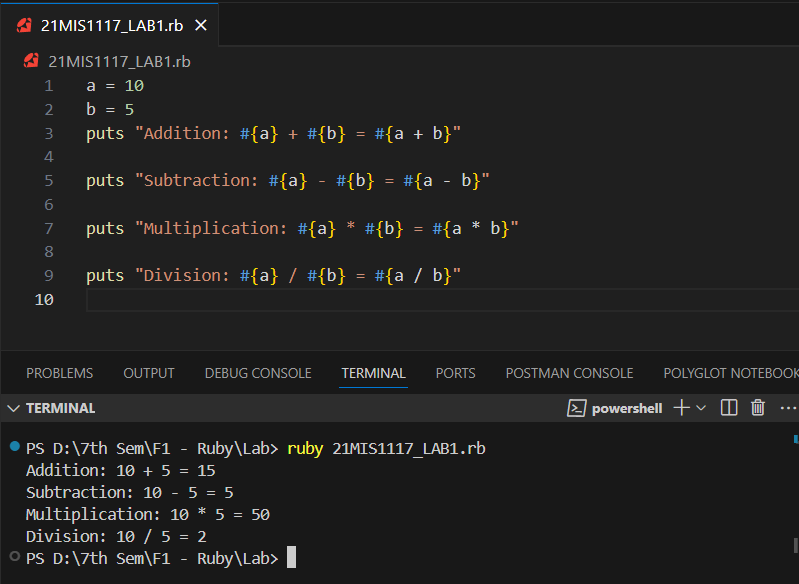
**Constants**

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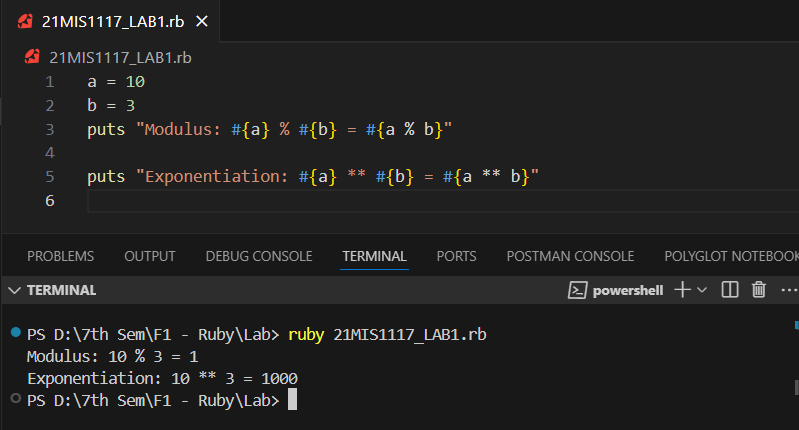
* + 1. **Arithmetic, Relation, Logical and Boolean operators (Each 2 Programs)**

**Arithmetic Operators**

**Program 1: Basic Arithmetic Operations**

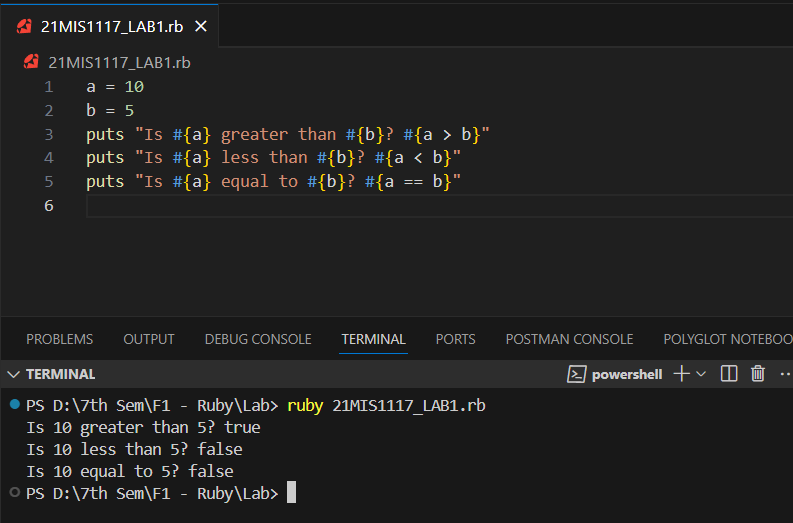
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**Program 2: Modulus and Exponentiation**

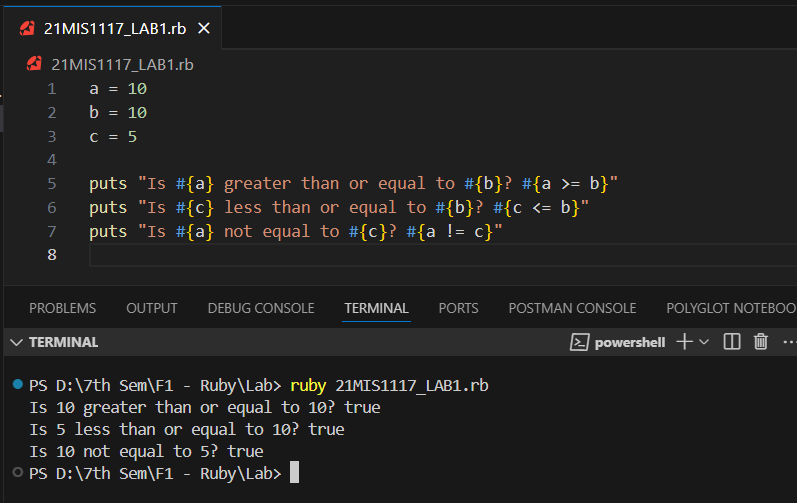
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**Relational Operators**

**Program 1: Basic Comparisons**

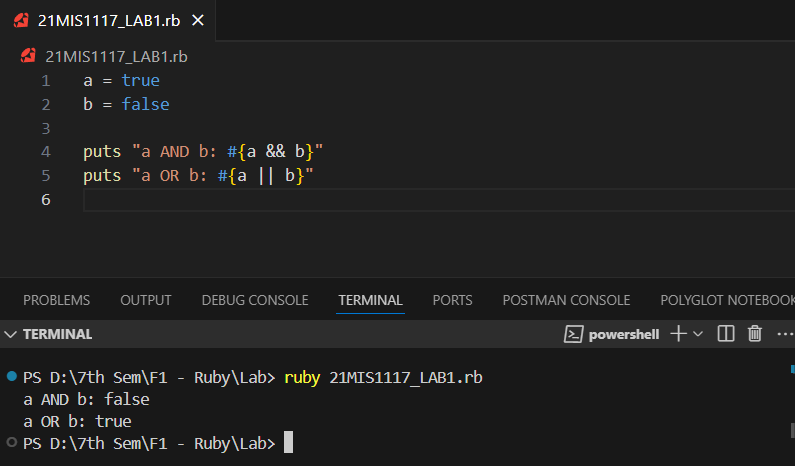
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**Program 2: Complex Comparisons**

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**Logical Operators**

**Program 1: Logical AND and OR**

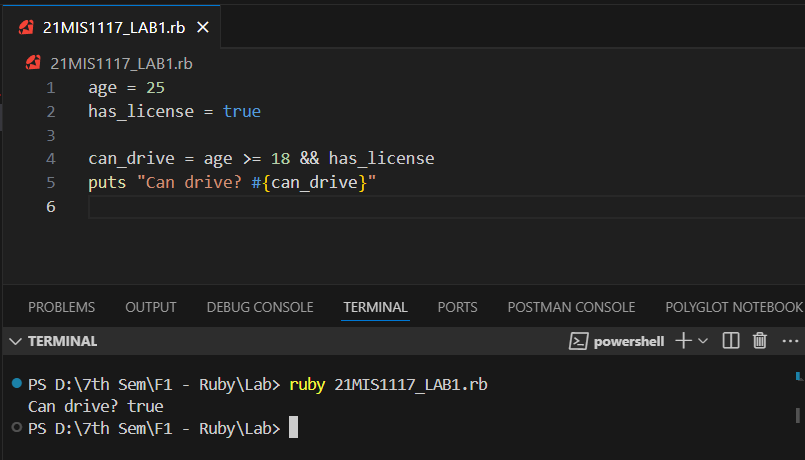
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**Program 2: Logical NOT**

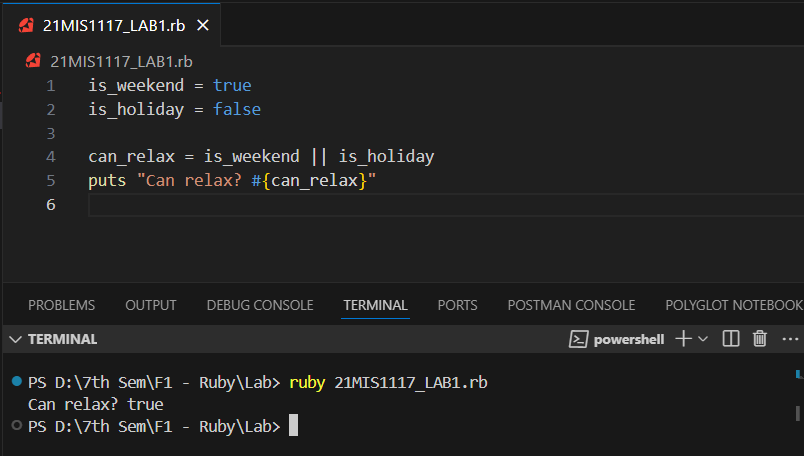
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**Boolean Operators**

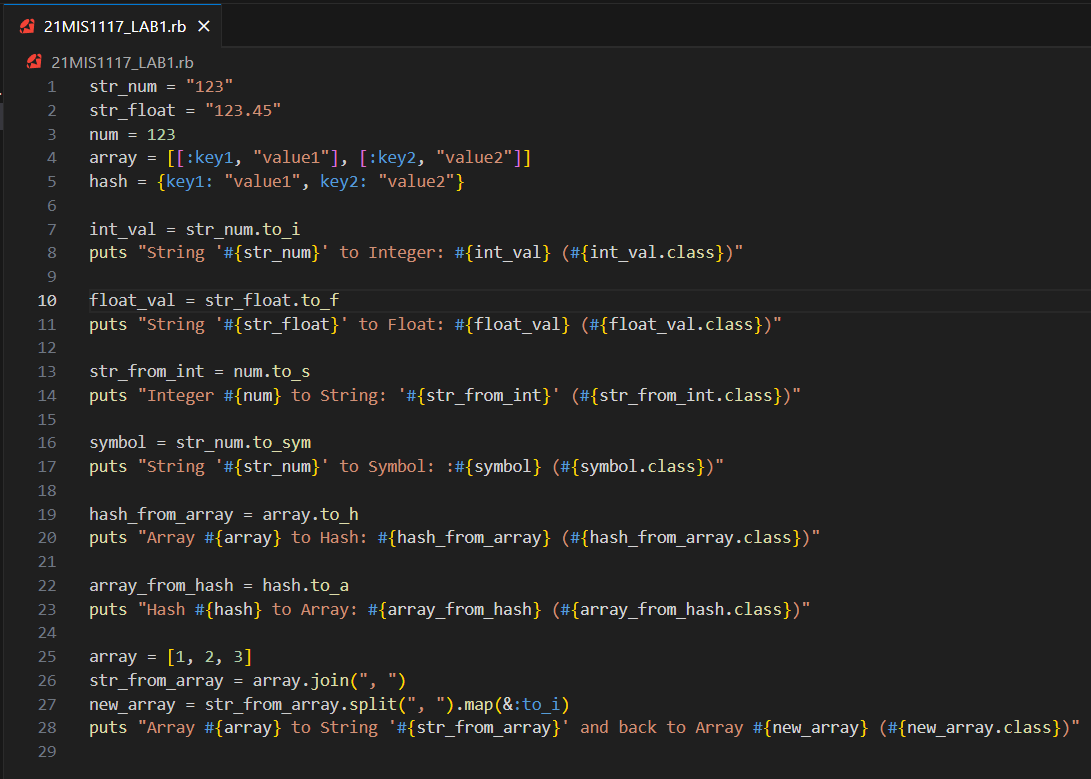
**Program 1: Combining Conditions**

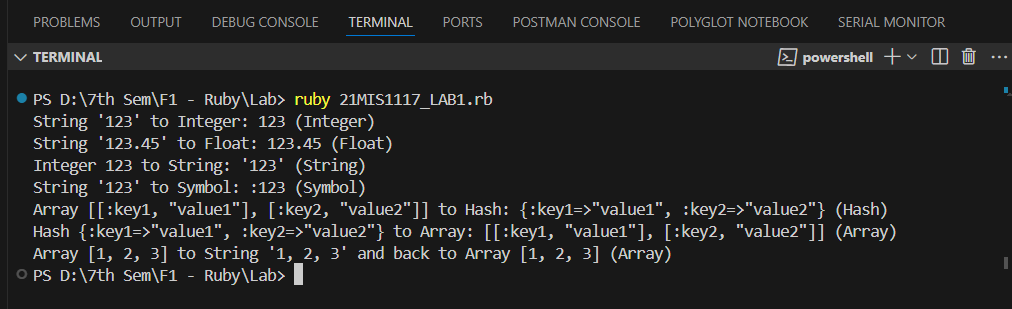
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**Program 2: Using OR to Provide Alternatives**

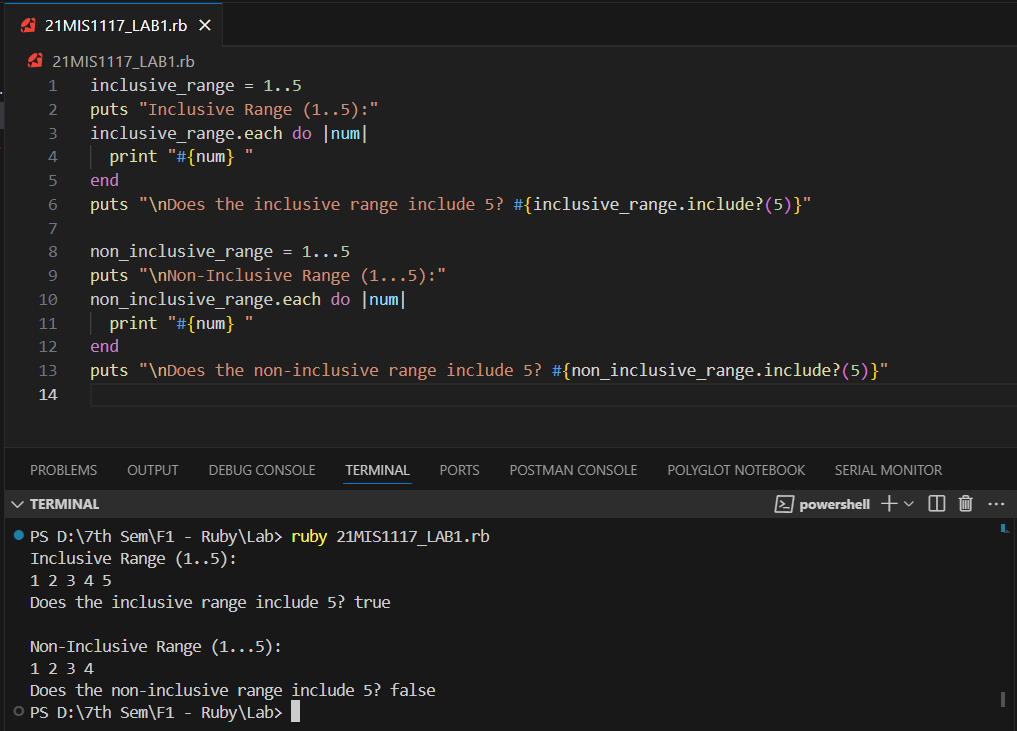
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* 1. **Conversion of Variables**

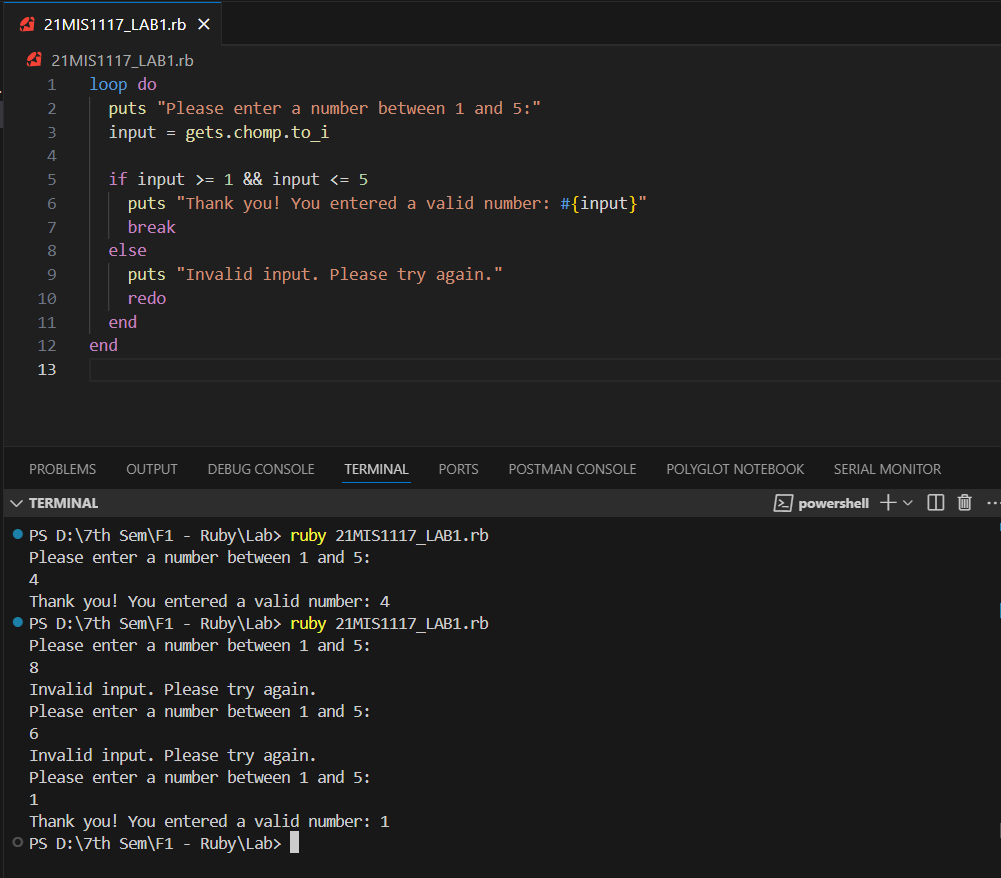
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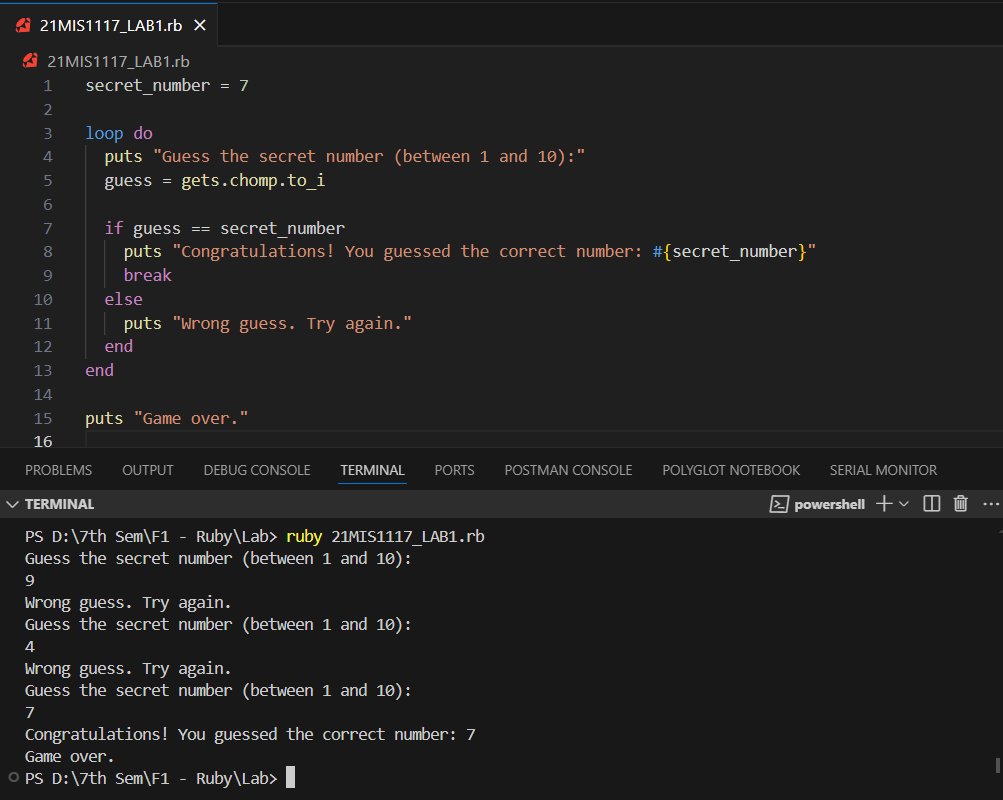
* 1. **Inclusive and Non-Inclusive Ranges**

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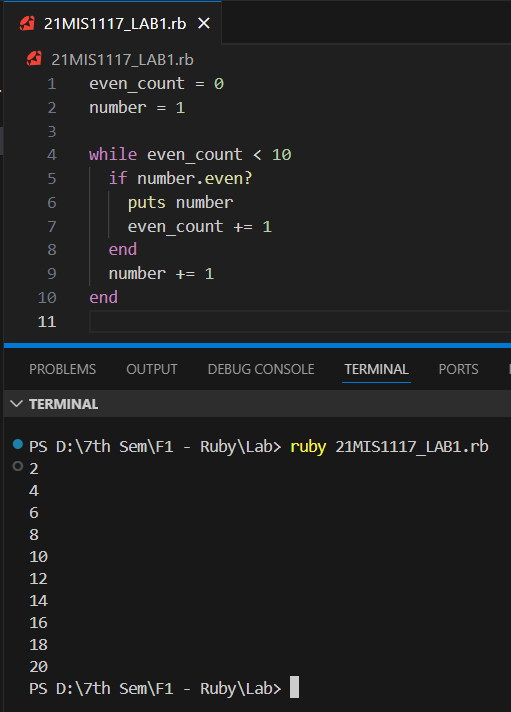
* 1. **Redo Program**

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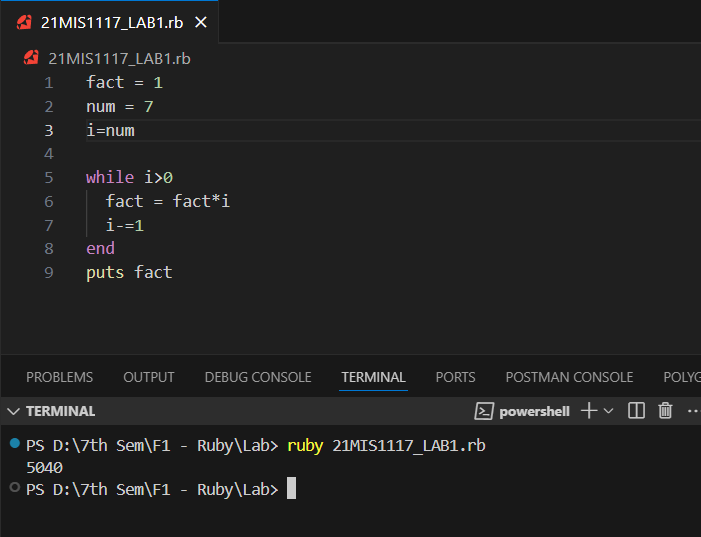
* 1. **Break Program**

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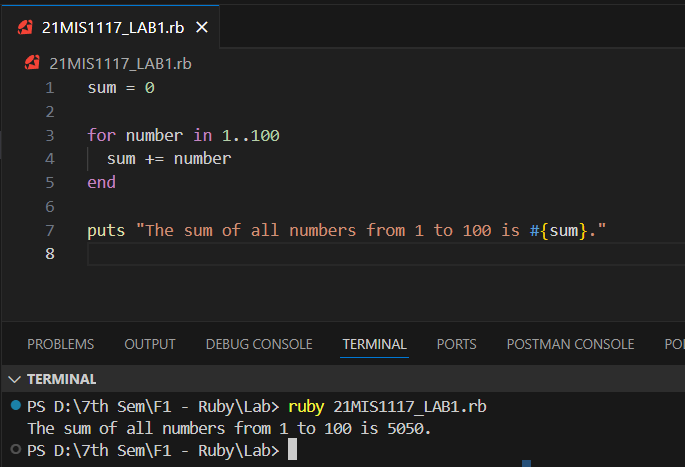
1. **A program that prints out the first 10 even numbers**

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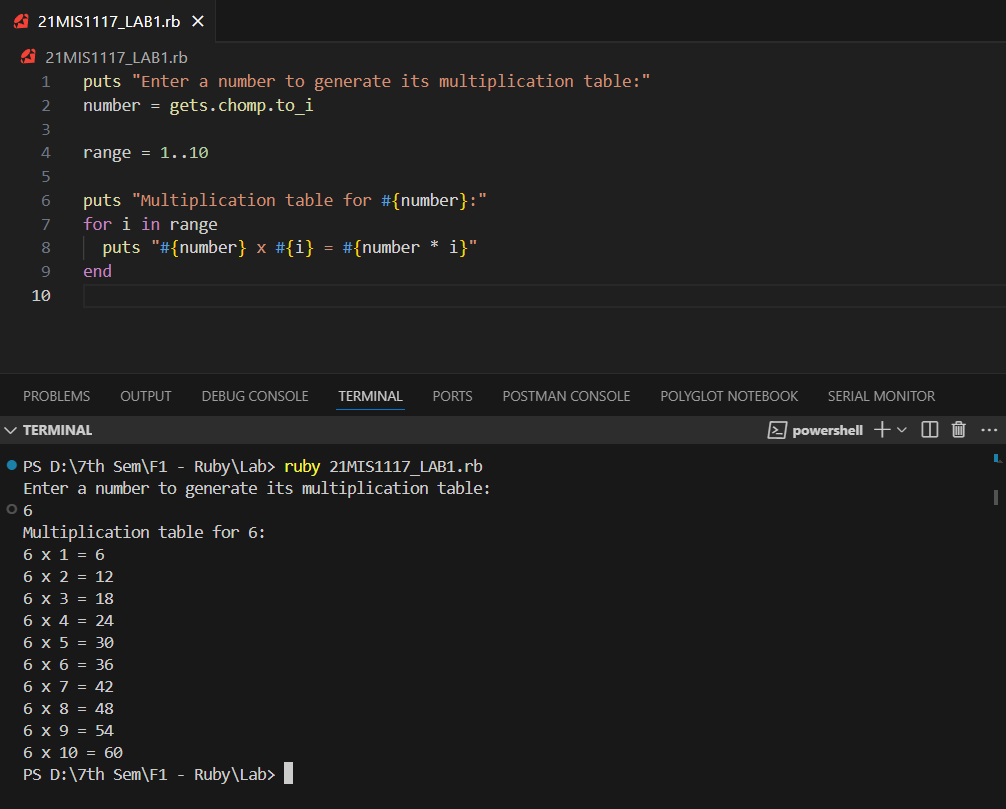
1. **A program that calculates the factorial of a number using a while loop**

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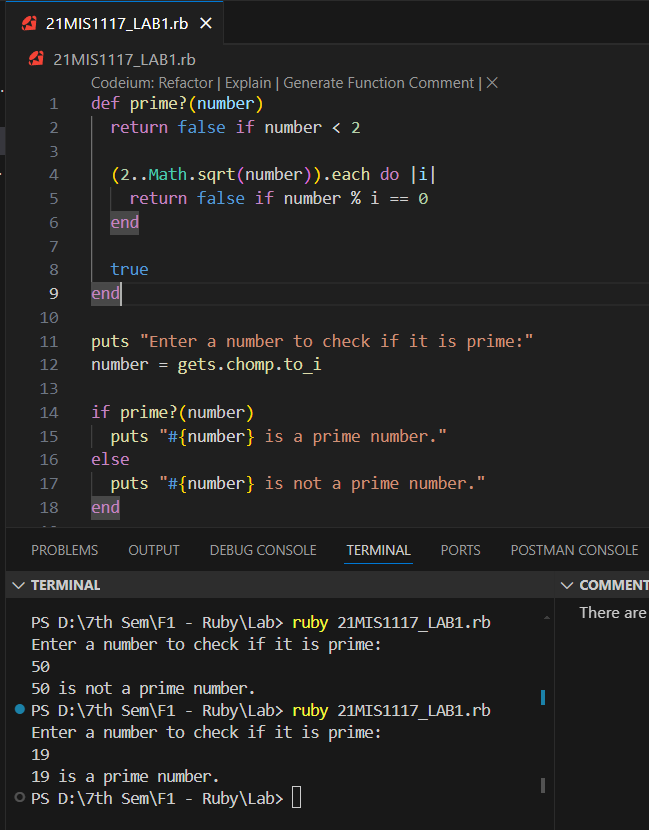
1. **A program that prints out the sum of all numbers from 1 to 100 using a for loop S.**

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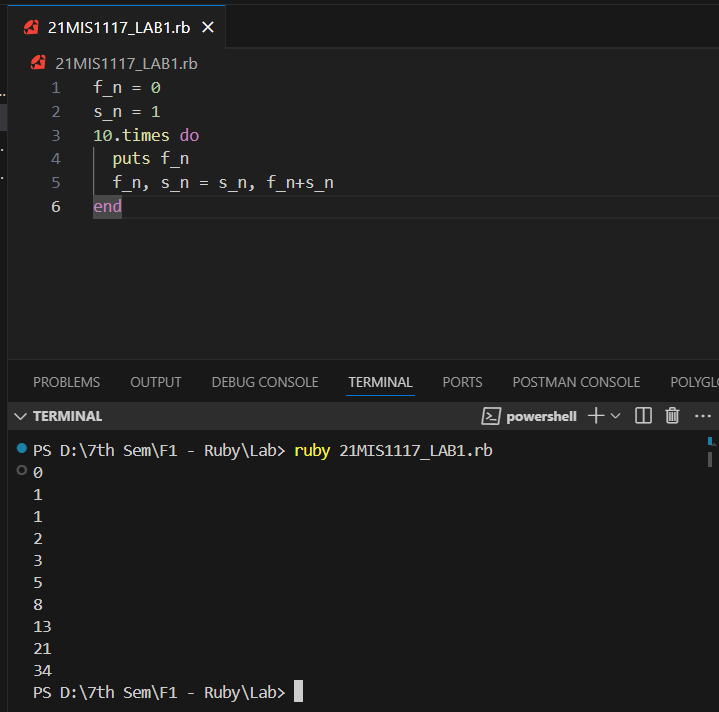
1. **A program that prints out the multiplication table of a number**

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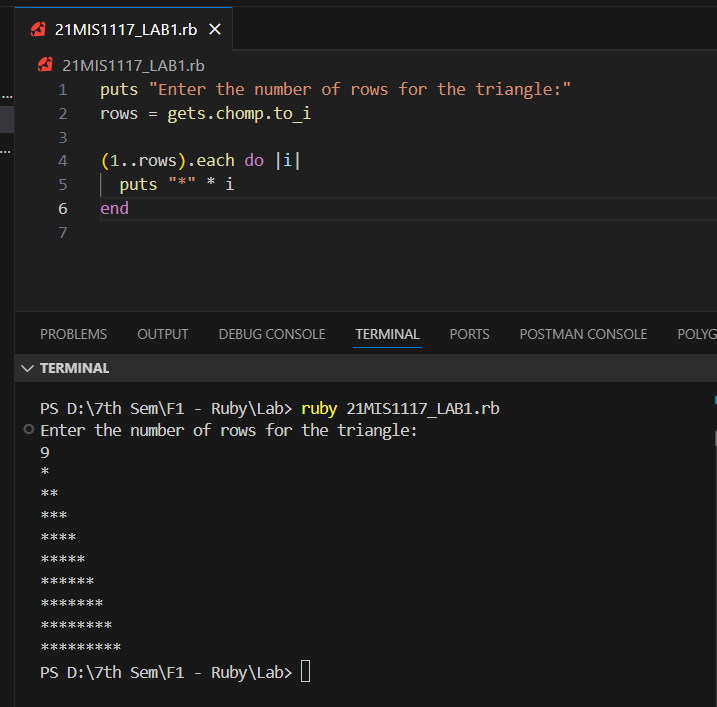
1. **A program that checks if a number is prime or not**

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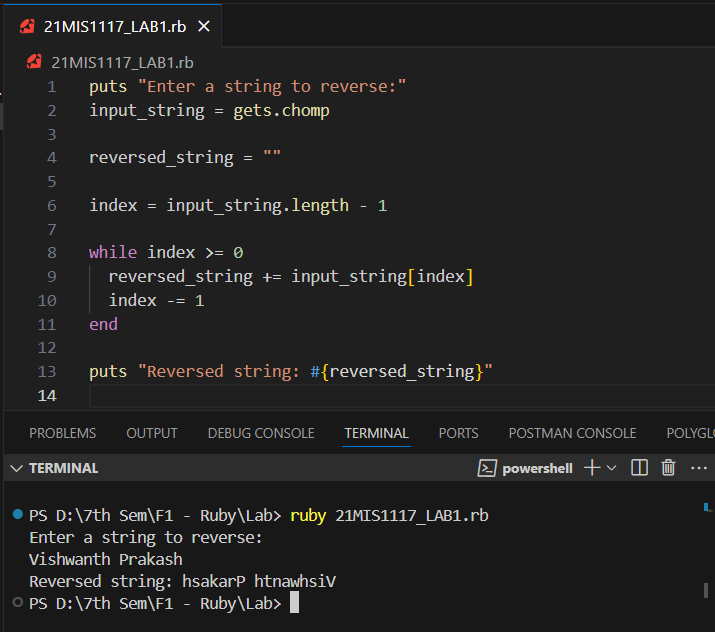
1. **A program that prints out the Fibonacci sequence up to a certain number**

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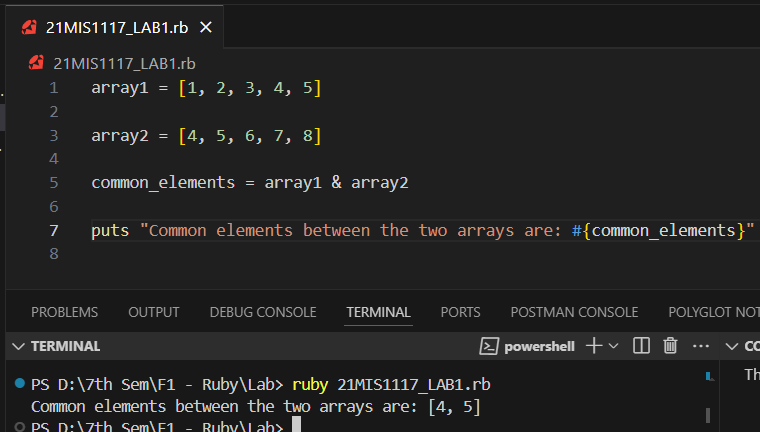
1. **A program that prints out a triangle of stars**

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1. **A program that reverses a string using a while loop**

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1. **A program that prints out the comm-elements between two arrays**

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