**Variables Exercises**

**Exercise 1**

What will be the values ​of variables A and B after the execution of the following instructions?

**Variables A, B as integer**

Start

A ← 1

B ← A + 3

A ← 3

End

**Exercise 2**

What will be the values ​of variables A, B, and C after the execution of the following instructions?

**Variables A, B,  C as Integer**

Start

A ← 5

B ← 3

C ← A + B

A ← 2

C ← B - A

End

**Exercise 3**

What will be the values ​of variables A and B after the execution of the following instructions?

**Variables A, B as Integer**

Start

A ← 5

B ← A + 4

A ← A + 1

B ← A - 4

End

**Exercise 4**

What will be the values ​of variables A, B, and C after the execution of the following instructions?

**Variables A, B, C as Integer**

Start

A ← 3

B ← 10

C ← A + B

B ← A + B

A ← C

End

**Exercise 5**

What will be the values ​of variables A and B after execution of the following instructions?

**Variables A, B as Integer**

Start

A ← 5

B ← 2

A ← B

B ← A

End

**Exercise 6**

Write an algorithm allowing the values ​of two  variables A and B to be exchanged, regardless of their  prior content

**Exercise 7**

We have three variables A, B and C. Write an  algorithm transferring to B the value of A, to C the  value of B and to A the value of C

**Exercise 8**

What does the following algorithm produce?

**Variables A, B, C as String**

Start

A ← "423"

B ← "12"

C ← A + B

End

**Exercise 9**

What does the following algorithm produce?

**Variables A, B, C as String**

Start

A ← "423"

B ← "12"

C ← A & B

End

**READING & WRITING EXERCISES**

1. Write a program to print “Hello, World!”

2. Write a program to Add Two Integers.

3. Write a program to Swap the Values of Two Variables.

 4. Write a program to Multiply two Floating Point Numbers

5. Write a program to perform all arithmetic operations

6. Write a program to convert feet to meter

**7. Write a program to convert Celsius to Fahrenheit**

**8. Write a program to convert Fahrenheit to Celsius**

9. Write a program to Calculate the Area of a Circle

10. Write a program to Calculate the Area of Square

11. Write a program to Calculate the Area of the Rectangle

12. Write a program to convert days to years, weeks, and days

**Exercices on CONDITIONAL STRUCTURE**

1. Write a Program to check whether an integer entered by the user is odd or even
2. Write a Program to find the largest number among three numbers.
3. Write a Program to Find the Largest Number using a Conditional Operator.
4. Write a program to check leap year using a conditional Operator.
5. Write a program to check alphabets using conditional operators.
6. Write a program to check number is positive, negative, or zero.
7. **Write a program to check uppercase or lowercase alphabets.**
8. **Write a program to check the entered character vowel or consonant.**
9. Write a program to check whether a character is an alphabet, digit, or special character.
10. Write a program to print the day name of the week.
11. Write a program to accept two integers and check whether they are equal or not.
12. Write a program to determine whether a candidate’s age is eligible for casting the vote or not.
13. Write a program to find the eligibility for admission to an engineering course based on the criteria.
14. **Write a program to calculate the total marks, percentage, and division of students.**
15. Write a program to enter the month number and print the number of days in a month.
16. Write a program to check whether a triangle can be formed by the given value for the angles.