

Assignment 02

Variables



1. Write a program that swaps the values of two variables.
2. Write a program that calculates the area of a rectangle given its length and width.
3. Write a program that converts temperature from Fahrenheit to Celsius.
4. Write a program that calculates the volume of a sphere given its radius.
5. Write a program that finds the average of three numbers.

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Assignment 02

If-elif-else



6. Write a program that determines if a number is even or odd.
7. Write a program that finds the maximum of three numbers.
8. Write a program that determines if a year is a leap year or not.
9. Write a program that determines if a number is positive, negative, or zero.
10. Write a program that calculates the grade based on a given percentage.

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Assignment 02

For Loop



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11. Write a program that prints the first `n` natural numbers.
12. Write a program that calculates the factorial of a number.
13. Write a program that generates a Fibonacci sequence of length `n`.
14. Write a program that checks if a given number is prime or not.

15. Write a program that prints the multiplication table of a given number.

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Assignment 02

While Loop

3



16. Write a program that finds the sum of all even numbers between 1 and `n`.

17. Write a program that reverses a given number.

18. Write a program that checks if a given string, is a palindrome.

19. Write a program that generates a random number and allows the user to guess it.
20. Write a program that finds the greatest common divisor (GCD) of two numbers.

Submission Guidelines: Upload the code in GitHub and submit the GitHub repository link. **How to Upload?** Here are [GitHub Tutorials](#)