Lab Assignment #3

- 1. Write a program to calculate the derivative using forward difference formula.
- 2. Write a program to calculate the derivative using backward difference formula.
- 3. Write a program to calculate the derivative using central difference formula.
- 4. Write a program to calculate the derivative using forward divided difference formula.
- 5. Write a program to calculate the derivative using backward divided difference formula.
- 6. Write a program to implement trapezoidal rule.
- 7. Write a program to implement composite trapezoidal rule.
- 8. Write a program to implement Simpson's 1/3 rule.
- 9. Write a program to implement composite Simson's 1/3 rule.
- 10. Write a program to implement Simpson's 3/8 rule.
- 11. Write a program to implement composite Simson's 3/8 rule.

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