GitHub : <https://github.com/dohack/100Days100CProjects>

Embarking on a 100 days, 100 C applications challenge is an excellent way to strengthen your programming skills, explore various aspects of C programming, and build a diverse portfolio of projects. Here's a list of 100 project ideas to consider for your challenge:

You don’t need to follow sequence.

~~1. Simple calculator~~

2. To-do list application

3. ~~Temperature converter~~ (Celsius to Fahrenheit and vice versa)

4. Currency converter

~~5. BMI calculator~~

6. Text-based adventure game

7. Tic-tac-toe game

8. Hangman game

9. Guess the number game

10. Contact management system

11. Library management system

12. Student record management system

13. Alarm clock

14. Stopwatch

15. Calendar application

16. Digital clock with GUI

17. Morse code translator

18. File compression/decompression utility

19. Text editor

20. Command-line file manager

21. Password generator

22. ASCII art generator

23. Sudoku solver

24. Puzzle solver (e.g., Sudoku, crossword)

25. Anagram generator

26. Palindrome checker

27. File encryption/decryption tool

28. Morse code communication tool (with input and output)

29. File splitter/merger

30. Image viewer (basic)

31. Simple paint application

32. ASCII animation player

33. Matrix operations (addition, multiplication)

34. Random password manager

35. Basic shell (command-line interface)

36. Maze generator/solver

37. Prime number generator

38. Fibonacci sequence calculator

39. Simple HTTP server (handling GET requests)

40. Chat application (console-based)

41. Basic text search engine

42. Simple database management system

43. Cryptocurrency tracker

44. Task scheduler

45. Weather forecasting application

46. Personal finance tracker

47. URL shortener

48. Morse code trainer

49. ASCII maze game

50. Basic image processing tool (e.g., grayscale conversion)

51. Code snippet manager

52. Basic version control system (with commit, checkout, and diff functionalities)

53. Markdown to HTML converter

54. ASCII art animation creator

55. Code obfuscator/deobfuscator

56. Simple web scraper (scraping HTML content)

57. Sudoku puzzle generator

58. Password manager with encryption

59. Unit converter (length, weight, volume)

60. Basic chatbot

61. Morse code interpreter (input from text or audio)

62. Basic music player (playback of .wav files)

63. Text-based RPG (role-playing game)

64. ASCII art text generator (convert text to ASCII art)

65. URL validator

66. Basic video player (playback of .avi files)

67. File backup utility

68. Basic neural network implementation (e.g., perceptron)

69. Morse code audio player (input from text)

70. Text-based RPG character generator

71. Basic search engine (with indexing and ranking)

72. Personal finance tracker with budgeting

73. Morse code chat application (console-based)

74. ASCII art gallery viewer

75. Basic text adventure game editor (create/edit game scenarios)

76. Morse code translator with sound playback

77. Basic sentiment analysis tool (analyze text sentiment)

78. Code formatter (e.g., C code formatter)

79. Image processing tool with filters (e.g., blur, sharpen)

80. Text-based chess game

81. Morse code Morse code translator (translate text to Morse code, then to audio)

82. Basic neural network training tool (e.g., backpropagation)

83. ASCII art animation editor

84. Text-based RPG quest generator

85. Basic chat application with encryption

86. ASCII art animation viewer

87. Morse code Morse code translator with audio playback

88. Basic neural network visualization tool

89. Text-based RPG battle simulator

90. Basic chat application with voice chat (text-to-speech and speech-to-text)

91. ASCII art animation creator/editor

92. Morse code Morse code translator with audio input/output

93. Basic neural network benchmarking tool

94. Text-based RPG world builder

95. Basic chat application with file sharing

96. ASCII art animation viewer/editor

97. Morse code Morse code translator with audio input/output and encryption

98. Basic neural network debugging tool

99. Text-based RPG character editor

100. Your own creative project idea!

Feel free to mix and match these ideas, modify them, or come up with your own project ideas to tailor the challenge to your interests and learning goals. Happy coding!