

# Sample Prompt

## CHAPTER-05

### MS Office related solution from DeepSeek

#### **04 Generate VBA code for our special projects**

Here's a 50 list of prompts to help you generate VBA code for unique and advanced Excel projects. Additionally, I'll provide tips for crafting better prompts to get the most effective VBA solutions.

##### **1. Be Specific About Requirements**

*"Write a VBA script for data analysis." (wrong)*

*"Write a VBA script to analyse sales data, grouping by region and calculating YoY growth, with results exported to a new sheet." (Right)*

##### **2. Define Inputs & Outputs Clearly**

*"Create a macro to clean data." (Wrong)*

*"Create a macro that takes raw data in columns A-F, removes duplicates, standardizes date formats in column B, and outputs cleaned data to a new sheet."(Right)*

##### **3. Specify Error Handling Needs**

- *"Include error handling for missing files."*
- *"Add validation to prevent runtime errors if input range is empty."*

##### **4. Mention Performance Expectations**

- *"Optimize for large datasets (100,000+ rows)."*
- *"Avoid using Select/Activate for faster execution."*

##### **5. Request Explanations & Comments**

- *"Add comments explaining each major step."*
- *"Provide a brief description of how the code works."*

##### **6. Ask for Alternative Approaches**

- *"Show two versions: one using loops, another using arrays for better performance."*

##### **7. Clarify Compatibility Requirements**

- *"Ensure the code works in Excel 2016 and later."*
- *"Make it compatible with both Windows and Mac if possible."*

##### **8. Include Sample Data for Testing**

- *"Test with sample data: A1:A10 contains product names, B1:B10 has sales numbers."*

## **1. Data Processing & Automation**

1. *"Write a VBA script to automatically split a large dataset into multiple sheets based on a column value."*
2. *"Generate VBA code to merge multiple Excel files from a folder into a single workbook."*
3. *"Create a VBA macro to clean and standardize inconsistent data (e.g., dates, phone numbers)."*
4. *"Write a VBA script to convert all formulas in a worksheet to values."*
5. *"Generate VBA code to automatically backup an Excel file every time it's saved."*

## **2. Custom Reports & Dashboards**

6. *"Write VBA code to generate a dynamic pivot table report with user-selected filters."*
7. *"Create a VBA macro to export an Excel dashboard as a PDF with a single click."*
8. *"Generate VBA code to refresh all data connections and pivot tables on workbook open."*
9. *"Write a VBA script to create an interactive chart that updates based on dropdown selection."*
10. *"Develop a VBA macro to auto-generate a summary report from multiple sheets."*

## **3. Advanced File & Folder Operations**

11. *"Write VBA code to list all files in a folder and import specific ones based on filename patterns."*
12. *"Generate a VBA script to rename all Excel files in a directory based on cell values."*
13. *"Create a VBA macro to automatically save a copy of a workbook in a new folder with today's date."*
14. *"Write VBA code to search for a file across multiple directories and open it."*
15. *"Generate a VBA script to zip a folder containing Excel reports."*

## **4. Interactive User Forms & Inputs**

16. *"Write VBA code to create a user form for data entry with validation checks."*
17. *"Generate a VBA script to build a multi-step wizard for importing data."*
18. *"Create a VBA macro that lets users select a range via a pop-up window."*
19. *"Write VBA code for a dynamic search box that filters data in real time."*
20. *"Develop a VBA user form with progress bar for long-running macros."*

## **5. Email & External App Integration**

21. *"Write VBA code to send an email from Excel with attachments and dynamic subject/body."*
22. *"Generate a VBA script to export a range to Outlook as a formatted table."*
23. *"Create a VBA macro to scrape data from a website and import it into Excel."*
24. *"Write VBA code to fetch live stock prices using an API."*

25. *"Develop a VBA script to interact with PowerPoint and paste Excel charts into slides."*

## **6. Security & Permissions**

26. *"Write VBA code to password-protect specific sheets based on user login."*

27. *"Generate a VBA script to log all changes made to a workbook (audit trail)."*

28. *"Create a VBA macro to restrict access to certain cells based on user role."*

29. *"Write VBA code to automatically lock cells after data entry."*

30. *"Develop a VBA script to detect and remove malicious macros from a workbook."*

## **7. Custom Calculations & Modelling**

31. *"Write VBA code to perform Monte Carlo simulations for financial forecasting."*

32. *"Generate a VBA script to solve optimization problems using Solver automatically."*

33. *"Create a VBA macro for Black-Scholes option pricing calculations."*

34. *"Write VBA code to implement a custom depreciation schedule for assets."*

35. *"Develop a VBA script to calculate loan amortization with extra payments."*

## **8. AI & Machine Learning (Basic Implementations)**

36. *"Write VBA code to classify text using keyword-based sentiment analysis."*

37. *"Generate a VBA script to predict sales using linear regression."*

38. *"Create a VBA macro for a simple recommendation engine based on user inputs."*

39. *"Write VBA code to cluster data using k-means (simplified version)."*

40. *"Develop a VBA script to scrape and analyse Twitter trends in Excel."*

## **9. Custom Utilities & Productivity Tools**

41. *"Write VBA code to highlight all formula cells in a worksheet."*

42. *"Generate a VBA script to find and remove duplicate rows automatically."*

43. *"Create a VBA macro to insert timestamps when cells are modified."*

44. *"Write VBA code to generate a table of contents for all sheets in a workbook."*

45. *"Develop a VBA script to batch-print selected worksheets with custom settings."*

## **10. Gaming & Fun Projects**

46. *"Write VBA code to create a Sudoku puzzle generator in Excel."*

47. *"Generate a VBA script for a Tic-Tac-Toe game with an AI opponent."*

48. *"Create a VBA macro to simulate a dice-rolling game with graphical output."*

49. *"Write VBA code to build a maze solver using cell navigation."*

50. *"Develop a VBA script for a simple Excel-based slot machine game."*