1. What are the data types used in VBA?

**Ans**: Common data types include Integer, Long, Single, Double, String, Date, Boolean, and Object.

1. What are variables and how do you declare them in VBA? What happens if you don’t declare a variable?

**Ans**: Variables store and manipulate data in VBA. Use the Dim keyword to declare them. Example: Dim myVar As Integer

If not declared, VBA treats variables as Variants, which may lead to inefficiency and potential errors.

1. What is a range object in VBA? What is a worksheet object?

**Ans**:

Range Object: Represents a cell, a row, a column, or a selection in Excel.

Worksheet Object: Represents a worksheet in Excel.

1. What is the difference between worksheet and sheet in excel?

**Ans**: In Excel, the terms "worksheet" and "sheet" are often used interchangeably. However, a workbook can contain different types of sheets. So, a worksheet is a specific type of sheet.

1. What is the difference between A1 reference style and R1C1 Reference style? What are the advantages and disadvantages of using R1C1 reference style?

**Ans**: A1 Reference Style: Uses column letters and row numbers (e.g., A1, B2).

R1C1 Reference Style: Uses row and column numbers (e.g., R1C1, R2C3).

Advantages of R1C1: Can be more convenient for certain calculations and dynamic formulas. It simplifies relative referencing.

1. When is offset statement used for in VBA? Let’s suppose your current highlight cell is A1 in the below table. Using OFFSET statement, write a VBA code to highlight the cell with “Hello” written in it. A B C 1 25 354 362 2 36 6897 962 3 85 85 Hello 4 96 365 56 5 75 62 2662

**Ans**: The Offset statement is used to move a specified number of rows and columns from a reference point.

Sub HighlightHello()

Range("A1").Offset(2, 2).Interior.Color = RGB(255, 0, 0) ' Highlights cell with "Hello."

End Sub