

Q1: What is a variable in a computer program?

Answer: A variable is a named storage container in a program or algorithm that holds data (a value) that can change while the program is running.

Q2: What is a value? Give two examples of different types of values.

Answer: A value is the actual data stored inside a variable. Values can be:

- **Numbers:** e.g., 8, 15, 180
- **Text/Words:** e.g., "Miah", "apple",

Q3: What does the term "temporary" mean when referring to a variable?

Answer: It means that the value stored inside a variable is not kept forever; it can be changed or updated as the algorithm runs.

Q4: Why is it important to use meaningful variable names for a variable?

Answer: A meaningful variable name gives clear information about the data stored inside it. This makes it easier for us to understand what the variable is used for.

Q5: Give an example of a good variable name and a poor variable name for storing a player's score.

Answer:

Meaningful Name: Score OR PlayerScore

Poor Name: X OR Y

Q6: What is variable assignment?

Answer: Variable assignment is the specific action of giving a value to a variable to store.

Example: set Age to 9

Q7: How many items of data can a single variable store at one time?

Answer: A variable can only store **one item of data at a time**.