

Key Terms

Term	Definition
Visual Basic	A programming language.
IDE	A software used for programming.
Visual Studio	The software used to program in VB.
Variable	A method of storing data within a program.
Data Type	The type of data that a variable can store. String = any character Integer = whole numbers Double = any numbers Boolean = True/False
Syntax Error	A typing mistake in the code.

Visual Basic

Visual Basic is a programming language that can be programmed through an IDE called Microsoft Visual Studio.



Variables

A variable is used in programming to store data that can then be used later by the program.

Code to create a variable:

```
Dim name As String
```

Code to read a user input and save into a variable:

```
name = Console.ReadLine()
```

Selection

Selection is where we use code that allows the program to take a “different path” depending on certain criteria.

Example of an IF Statement:

```
If name = "Bob" Then
    Console.WriteLine("Hello Bob")
Else
    Console.WriteLine("You're not Bob!")
End If
```

Iteration

Iteration is where we repeat (loop) code a certain amount of times. This allows us to type less code and is more efficient.

Example of a For Loop:

```
For index As Integer = 1 To 5
    Console.WriteLine(index.ToString)
Next
```

Flowcharts

Flowcharts are used to show how a program would work. They are usually created before writing the program so that the programmer can plan out how the program is going to fit together.

Different Symbols used in Flowcharts:

Terminator	Process	Input/Output	Decision	Connector
Used at the start and end of flowchart.	Used to show a process or task.	Used for new inputs or outputs.	Used for IF statements in code.	Used is flowchart covers multiple pages.