

Part 3 . 34

1. **The syntax error is like a grammatical error in programming language:**

`x = int(input(Enter a number:))` → There should be quotation marks between the red statement

`y = int(input(Enter another number:))` → Same as above

`if x >= y` → There should be a colon (:) after the if condition
`print(x + y)`

2. **The run-time error occurs after the program is successfully compiled, which means that it has no syntax errors**

Such as:

- a) Division by zero
- b) Performing infinite loop
- c) Using an identifier that has not been identified
- d) Accessing a file that doesn't exist

3. **Although logical errors are errors that has neither syntax nor run-time errors, but it doesn't perform or show the exact right output**

`x = int(input("Enter a number: "))`

`y = int(input("Enter another number: "))`

Calculating the sum of x & y

`sumValue = x - y` → Here we wrote by mistake (-) instead of (+), which is not wrong as a syntax, but it doesn't perform the right task

`print(sumValue)`