# Answers to Questions from TT1.2

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## 1: How does *Program 3* illustrate the concept of **sequence**?

Prizza = 10

Drink = 4

mealTotal = 10 + 4 = 14

pasta = 12

mealTotal = 14 + 12 = 26

Write line - Pizza: 10, Pasta: 12

Write line – Meal Total: 26

## 2: The code pizza := 10; is an example of which kind of programming statement?

This is an expression statement.

## 3: What **actions** does the computer perform when it executes the statement d := a;?

The computer first gets the variable ‘d’

Then it stores the variable ‘A’ into ‘d’

## 4: What **actions** does the computer perform when it executes a := a + b;?

The computer first gets the variable ‘a’ and ‘b’

Then it runs and expression which then stores a new variable in ‘a’

## 5: How would the value of variable **i** change in the statement i := i + 1;?

The value of i will be the value of I incremented by 1.

## 6: What are the value and type of the following expressions (given the associated variable values)?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Variable Values** | **Expression** | **Value** | **Type** |
|  |  | 5 | 5 | Integer |
|  |  | 5.1 | 5.1 | Double |
|  |  | 'Hello' | Hello | String |
|  |  | 1 + 2 \* 3 | 7 | Integer |
|  | a := 1; b := 2; | a + b | 3 | Integer |
|  | a := 3; | 2 \* a | 6 | Integer |
|  | a := 1.5; b := 2; | 2 \* a + b | 5 | Double |
|  | a := 1.5; b := 2; | a + 2 \* b | 5.5 | Double |
|  | a := 1; b := 1; c := 5 | (a + b) \* c | 10 | Integer |
|  |  | 'Fred' + ' ' + 'Smith' | Fred Smith | String |
|  | a := 'Wilma' | a + ' Smith' | Wilma Smith | String |

## 7: What is the most appropriate type to store the following?

|  |  |  |
| --- | --- | --- |
|  | **Data** | **Type** |
|  | A person's name | String |
|  | Number of students in a class | Integer |
|  | Average age of a group of people | Double |
|  | A temperature in Celsius | Double |
|  | The name of a subject | String |
|  | Runs scored in a cricket match | Integer |
|  | A student’s ID number | Integer |
|  | A person’s phone number | Integer |
|  | The cost of an item | Double |