# Exercise: Variable & Data Type

Are these variable names are valid?, Why?

A. my_name ans:_____ why:_____

B. 89_sales ans:_____ why:_____

C. sales_89 ans:_____ why:_____

D. a-salary ans:_____ why:_____

E. STUDENT AGE ans:_____ why:_____

Fill in the table:

| | | | VARIABLE EXAMPLE | | DATA EXAMPLE |
|---|---|---|---|---|---|
| 1 | Integer | 1 | | 1 | |
| | | 2 | | 2 | |
| 2 | Float | 1 | | 1 | |
| | | 2 | | 2 | |
| 3 | String | 1 | | 1 | |
| | | 2 | | 2 | |
| 4 | Char | 1 | | 1 | |

# Exercise: Variable & Data Type

1 A program is required to input student name, id and GPA from a user.
- If GPA is less than 2.0, status is FAIL.
- If GPA is less than 3.0, status is MODERATE.
- If GPA is equal and more 3.0, status is PASS.

At the end of program display name, id, GPA and status

| VARIABLE | DATA TYPE |
|---|---|
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2 A program is required to read two numbers from a user, compare them to find out:

**Input_A IS LESS THAN Input_B** OR
**Input_A IS GREATER THAN Input_B** OR
**Input_A IS EQUAL TO Input_B**

| VARIABLE | DATA TYPE |
|---|---|
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3 Program accepts student name, class & score as input (score must be 0 –100 without decimal points), then display the grade that this student have earned. This is the grading system policy:

| SCORE | GRADE |
|---|---|
| 0≤ SCORE <50 | D |
| 50≤ SCORE < 60 | C |
| 60≤ SCORE < 80 | B |
| 80≤ SCORE < 100 | A |

| VARIABLE | DATA TYPE |
|---|---|
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4 Create a program to calculate user's Body Mass Index (BMI). The program will accept user name, gender, weight in kilogram and height in meter and calculate the BMI.
BMI formula is Weight ÷ ( Height × Height ).

| BMI | STATUS |
|---|---|
| <18.5 | Underweight |
| 18.5≤ BMI <25 | Normal |
| 25≤ BMI <30 | Overweight |
| ≥30 | Obese. |

| VARIABLE | DATA TYPE |
|---|---|
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5 Create a program for 2 a malay riddle.
1) Bila di ikat saya berjalan, bila di buka saya berhenti, siapakah saya?
   Answer= kasut
2) Kalau Tuan bijak bestari, apa yang naik tak pernah turun?
   Answer= umur

At the end of the program, it will show how many correct answer user get.

| VARIABLE | DATA TYPE |
|---|---|
| | |
| | |
| | |