

اللهم صلي وسلم وبارك على سيدنا محمد
وعليه وأصحابه أجمعين





مهم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20٪ مما يتم شرحه في الفيديوهات
الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كمية معلومات وخبرات كثيرة

يجب عليك مشاهدة فيديو الدرس كاملا
لاتنسى عمل لايك ومشاركة القناة لتعلم الفائدة لجميع
لا تنسونا من دعائكم

ProgrammingAdvices.com

Mohammed Abu-Hadhoud





اساسيات مممه لكل مبرمج المتغيرات والثوابت

Variables & Constants



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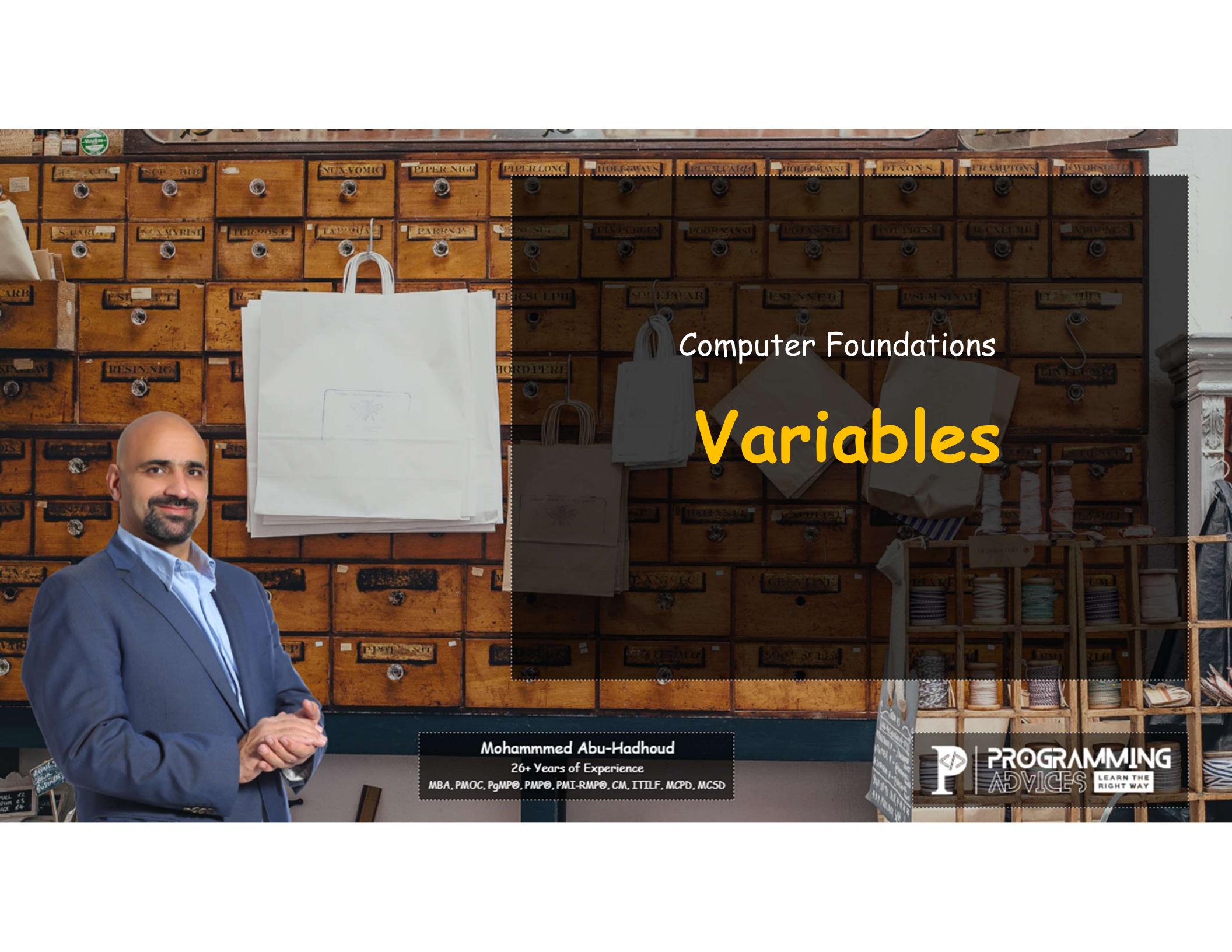
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Computer Foundations

Variables

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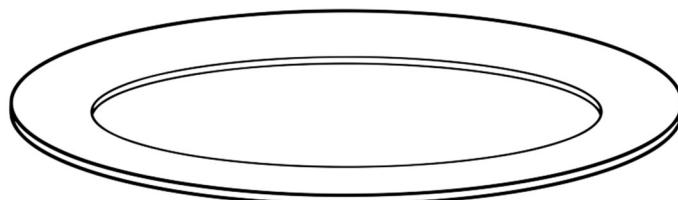
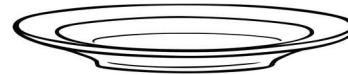
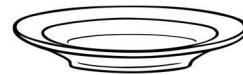
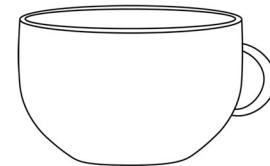


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In the kitchen



Can you use this for
one Egg?





What are Variables?

Variables are **containers** for storing data values

VARIABLES are used to store data.

Storing information is useful when you want to reuse that information many times or use it at different times while running a program.



Computer Foundations

Variable Types

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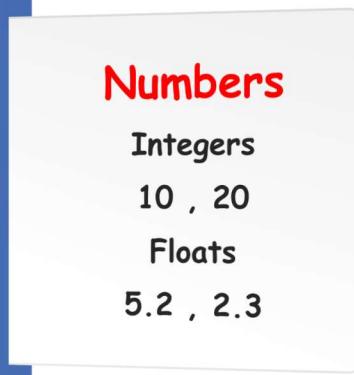


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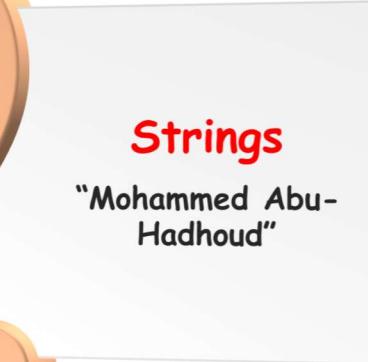
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Primary Variable Types

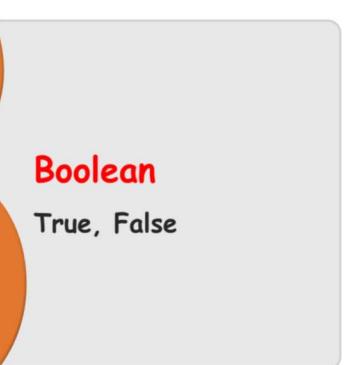
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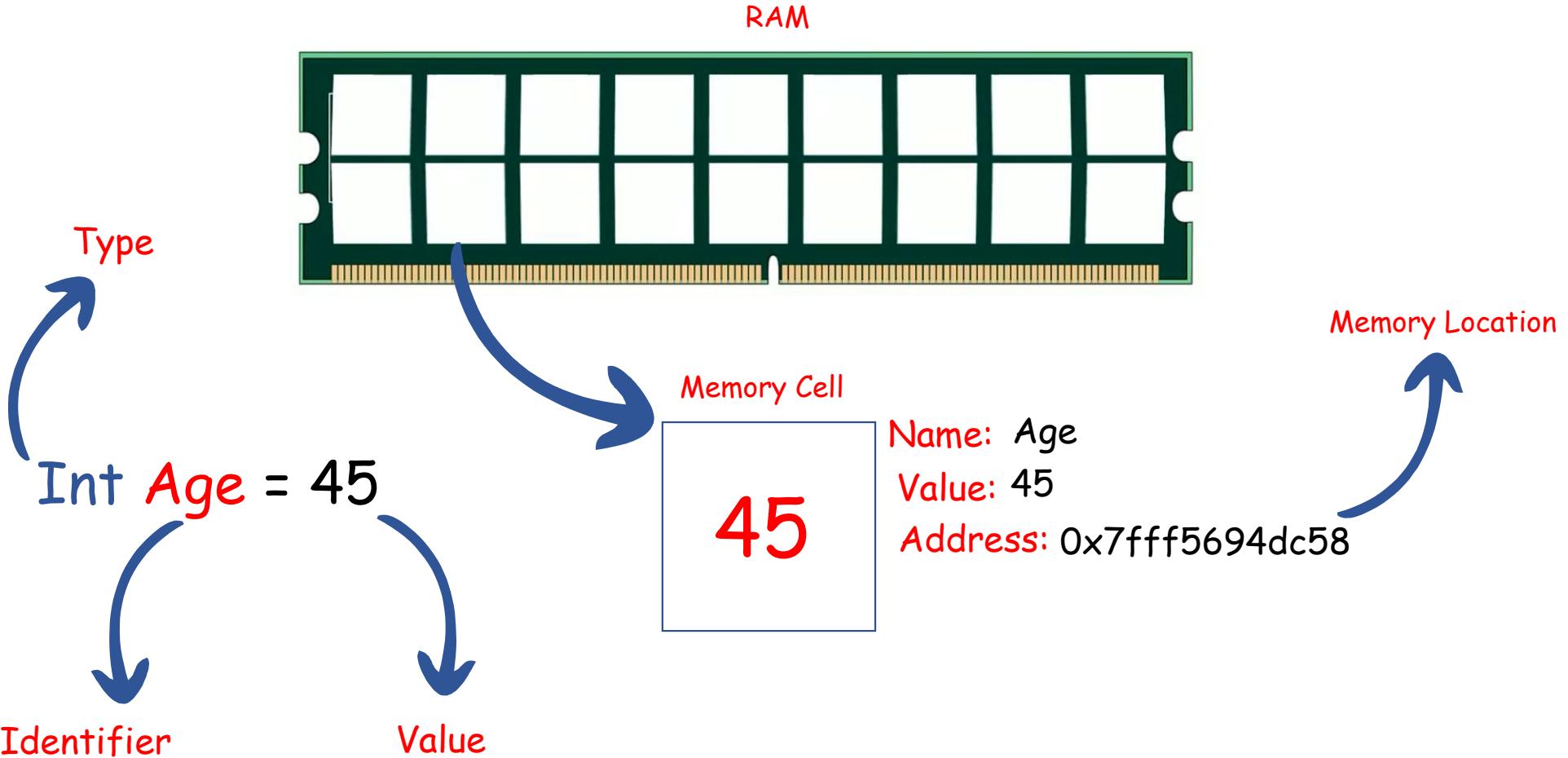


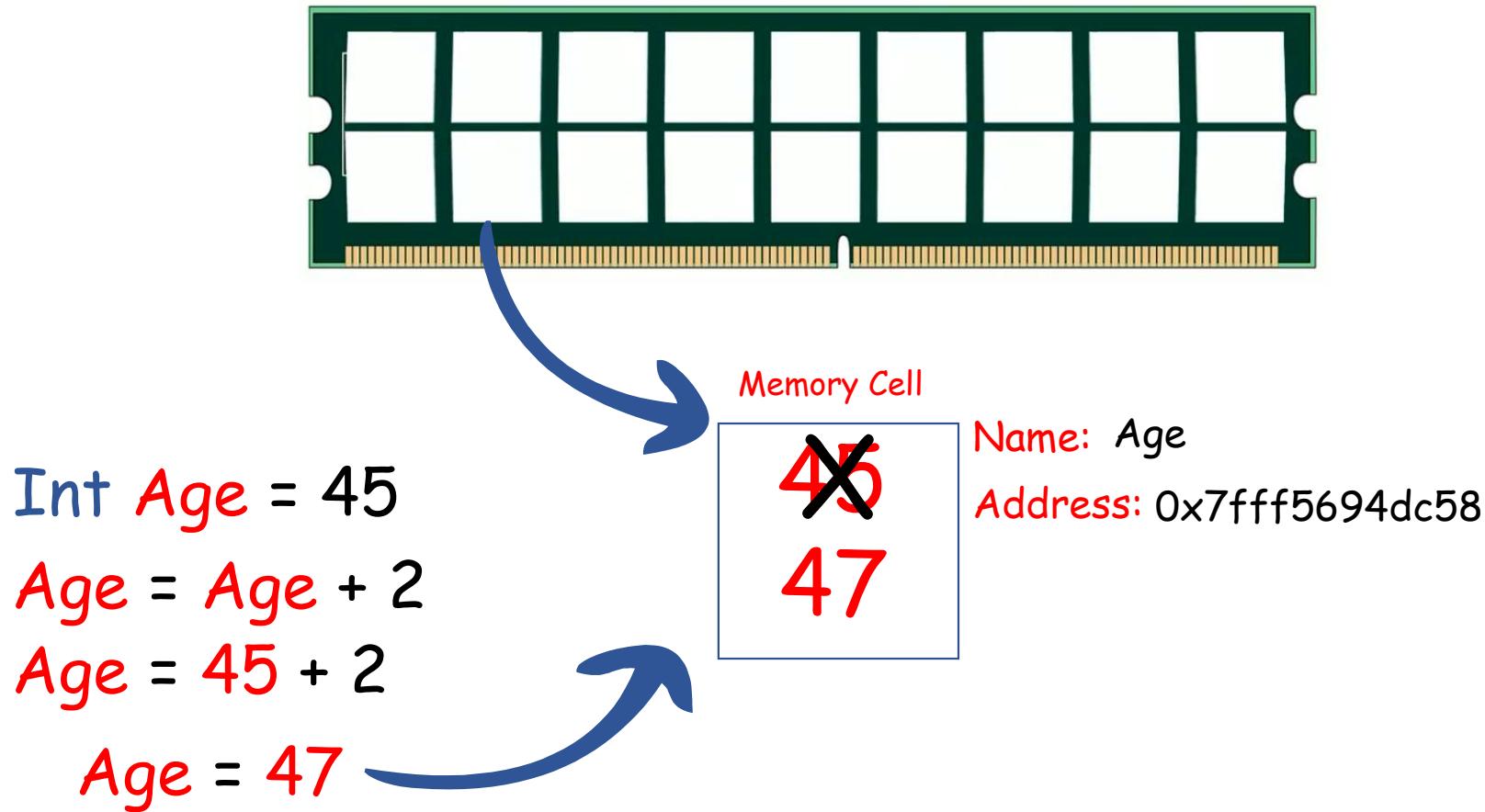
2



3









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Constants

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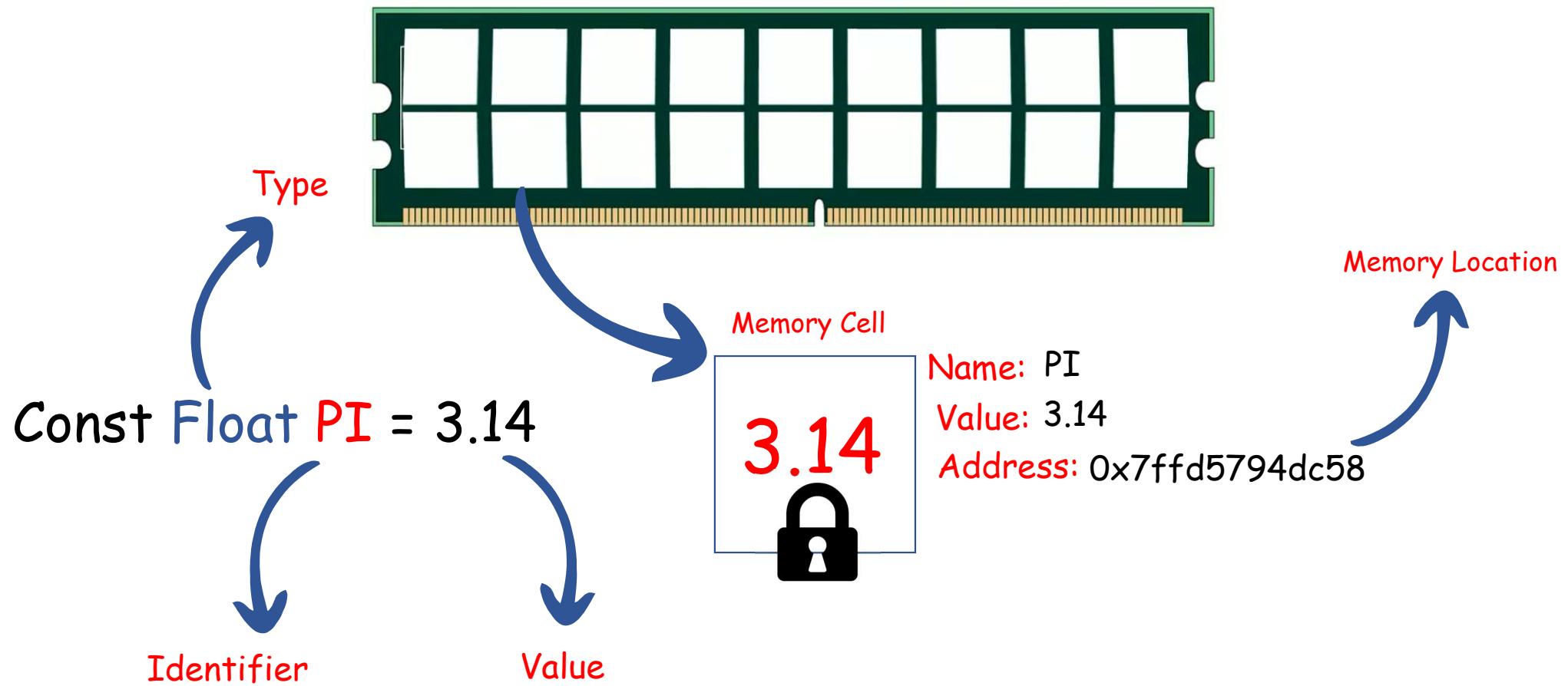


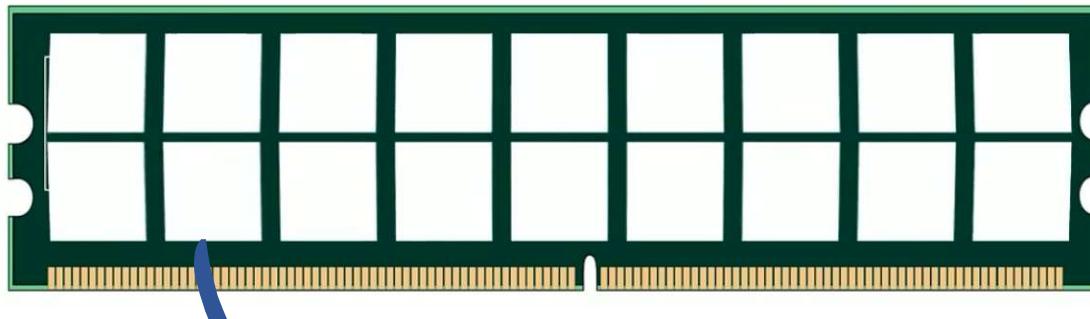
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What are Constants?

Constants are containers for storing data values, but they are read only.





Const Float PI = 3.14

~~PI = PI * 2~~
Error

Memory Cell

3.14



Name: PI

Value: 3.14

Address: 0x7ffd5794dc58



Computer Foundations Performance Tips

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If you want to drink coffee, then..

**It is ok to Drink
Coffee like this.**

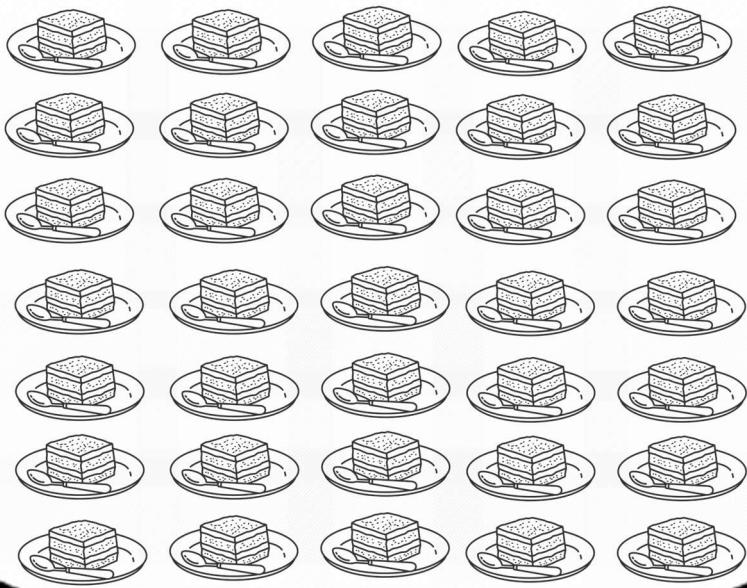


**It is not ok to
drink it like this.**



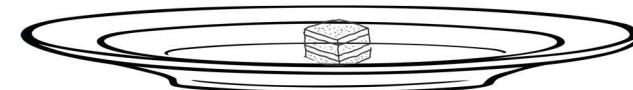
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A



5

B



1 Visit

7 Visits

ال حاجات دي هتاخدها في الاجورزم شويه كدا بحيث تقلل من التايم وتعلي الأداء هتتكيف متقلقش



Don't waste memory !!!!!

Age

Human lives 100-150 years
Maximum number you need is 150

4,294,967,295



Homework



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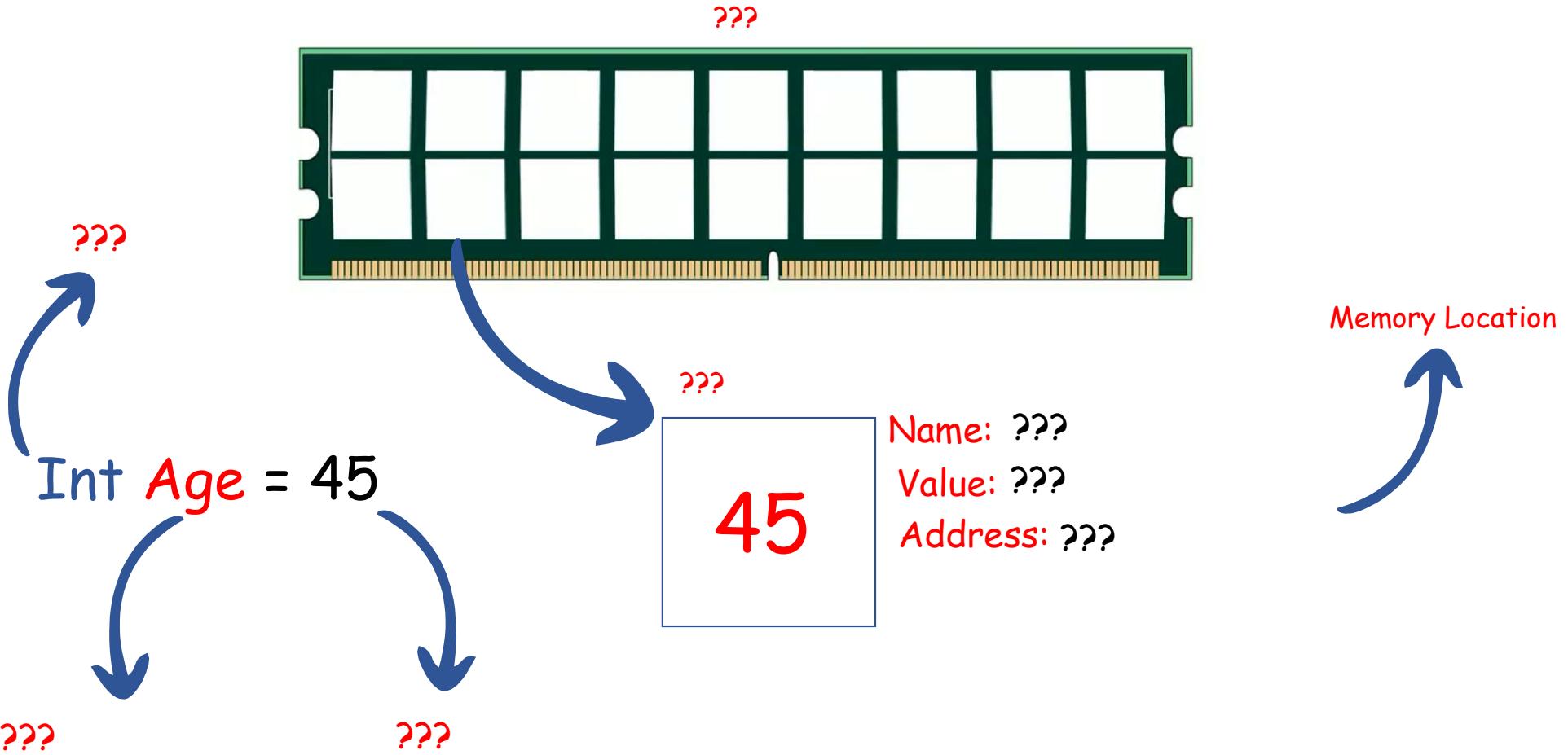
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Answer the following questions:

- What is Variable? And why do we need it?
- What is constant? And why do we need it?
- What is Memory Cell?
- What is identifier?
- What is Memory Address? What is its relation to location?
- Which numbering system used in memory address?
- Mention the primary types of variables?
- What are the number's types? And give an examples?
- What is string? And give an example on it.
- What is Boolean? and give an example on it.

Answer the following questions:

- Are all variables and constants have the same size?
- What happens when you use much larger size than you need in variables?
- Can we modify a variable during the program?
- Can we modify a constant during the program?
- How to make a variable read only?
- Where do the variables and constants get stored?
- What is the difference between Integers and Floats?





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