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MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD
26+ years of experience


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 كميه معلومات
وخبرات كثيره
يجب عليك مشاهدة فيديو الدرس كاملا
لاتنسى عمل لايك ومشاركة القناة لتعم الفائدة للجميع
لا تنسونا من دعائكم
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اساسيات مهمه لكل مبرمج
العمليات في الكمبيوتر
Operators
9
5
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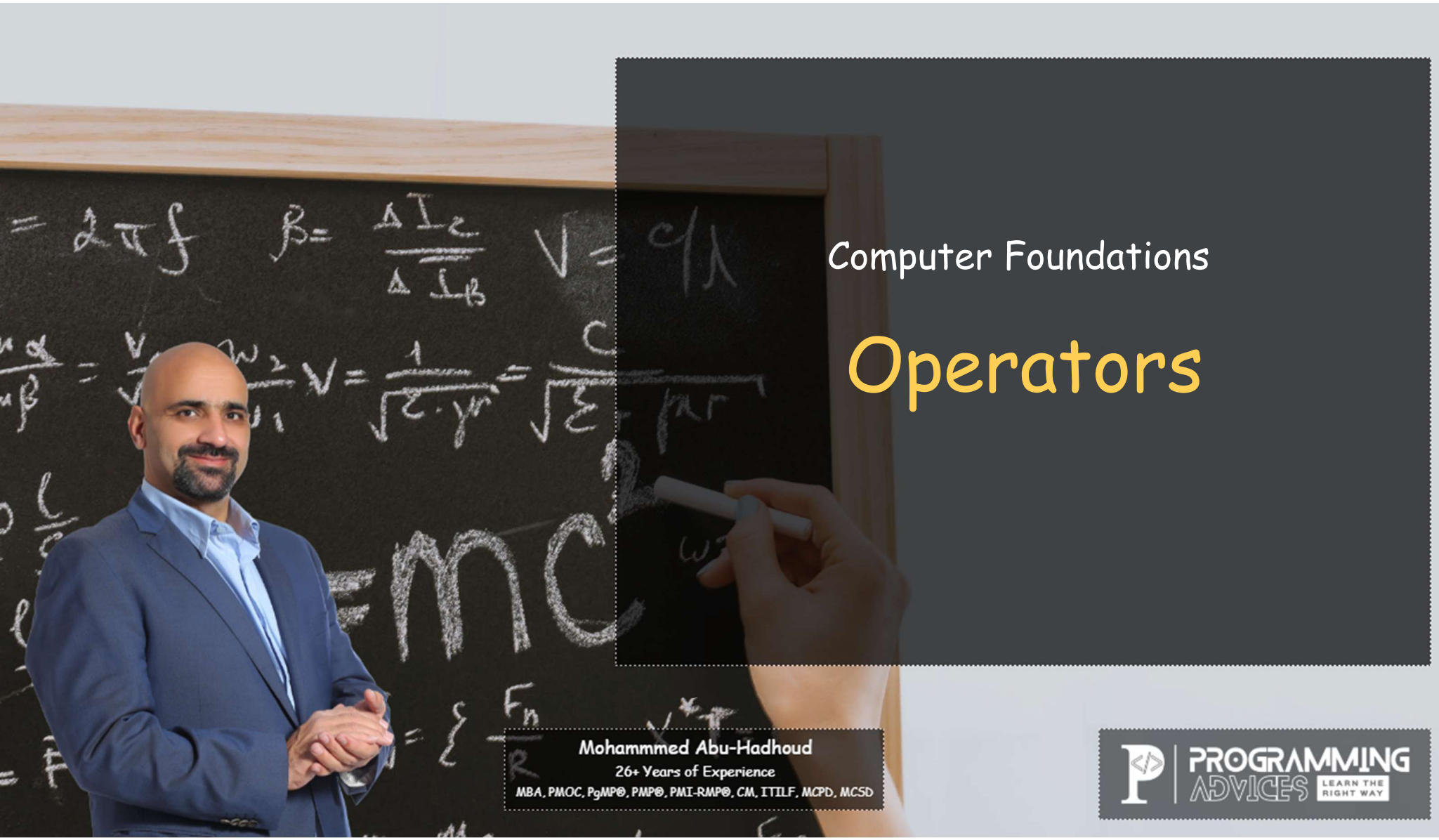

Computer Foundations

Operators

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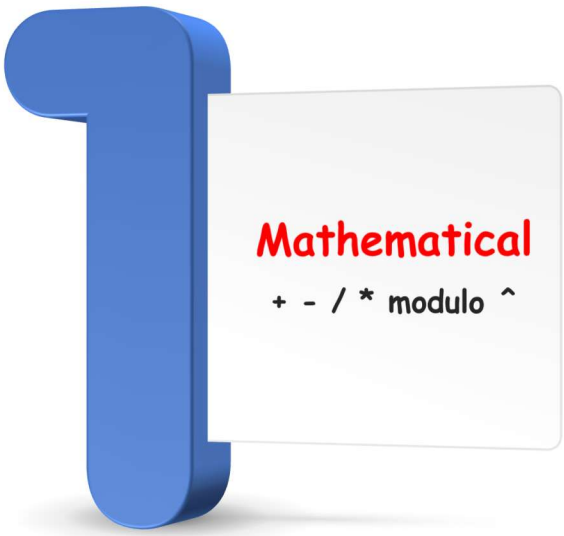
Operator Types



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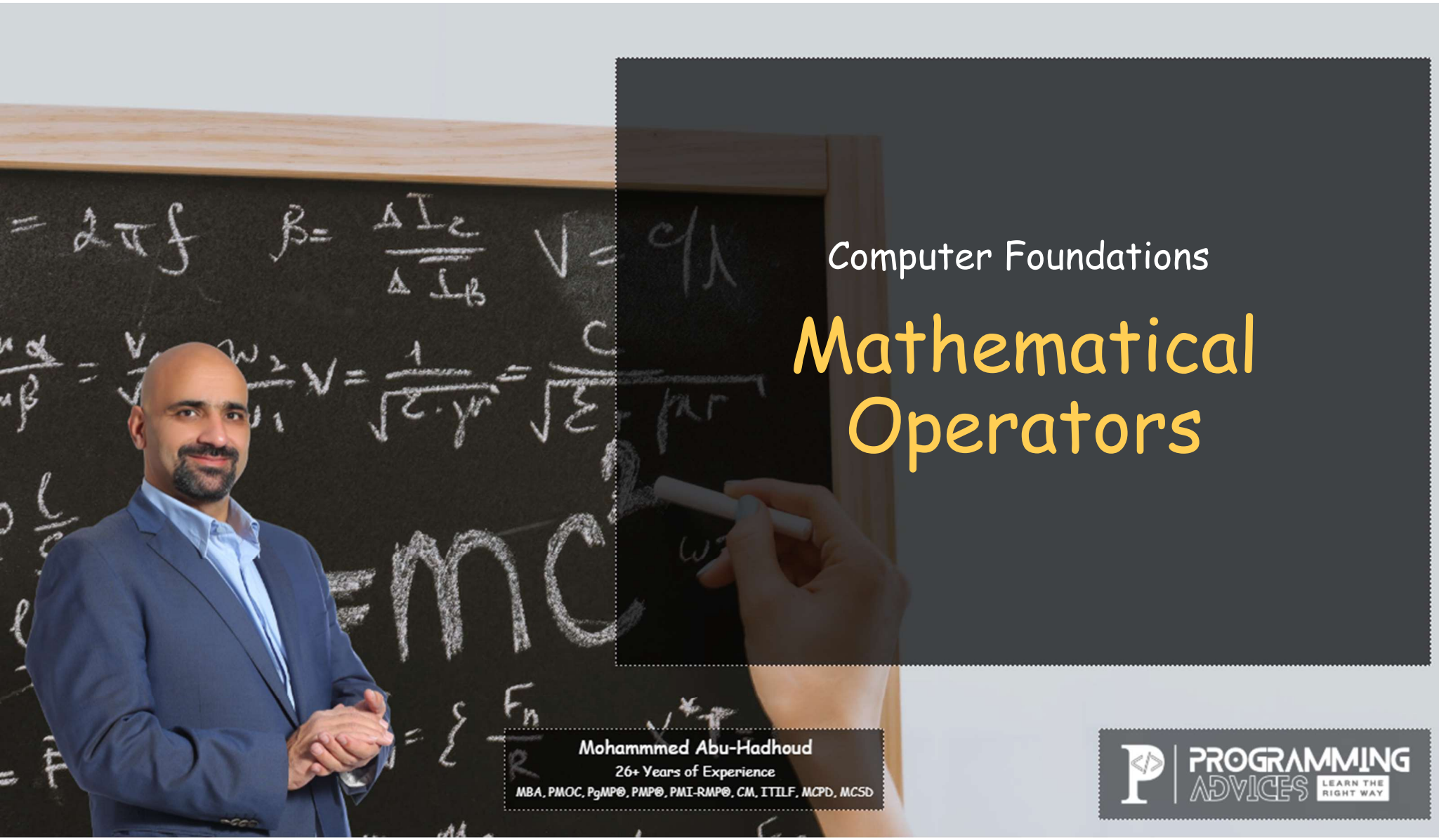

Computer Foundations

Mathematical Operators

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Mathematical Operators

Operator	Computer Symbol	Example	
		Operation	Results
Addition	+	3.0 + 4.2	7.2
Subtraction	-	8.5 - 4.0	4.5
Multiplication	*	5 * 5	25
Integer Division	/	10 / 5	2
Modulo Division	Mod	9 Mod 4	1
Power	^	3^2	9

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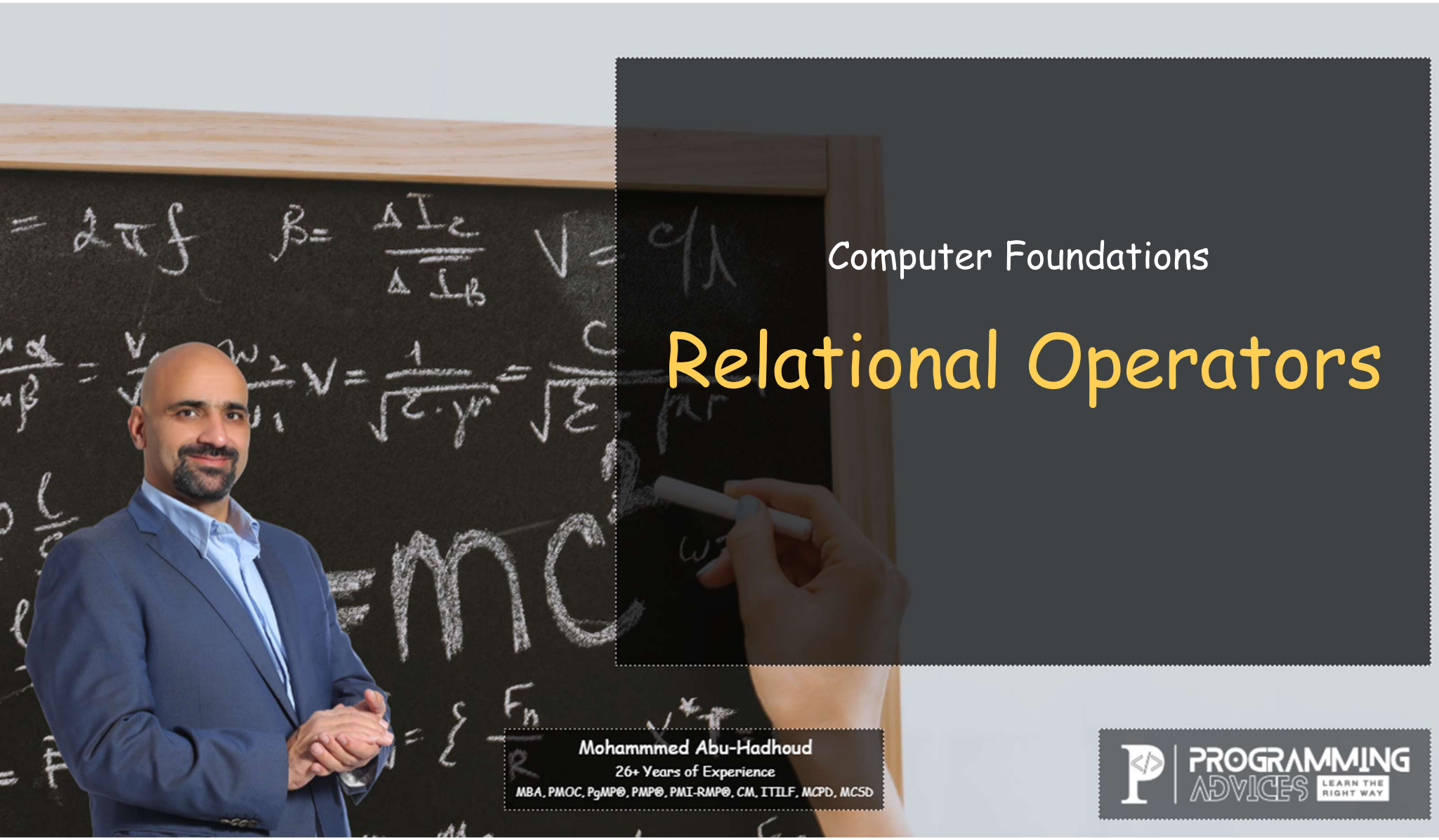

Computer Foundations

Relational Operators

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Relational Operators

Operator	Computer Symbol	Example	
		Operation	Results
Equal to	=	5 = 7	False
Less than	<	5 < 7	True
Grater than	>	5 > 7	False
Less than or equal to	<=	5 <= 7	True
Grater than or equal to	>=	5 >= 7	False
Not equal to	<>	5 <> 7	True

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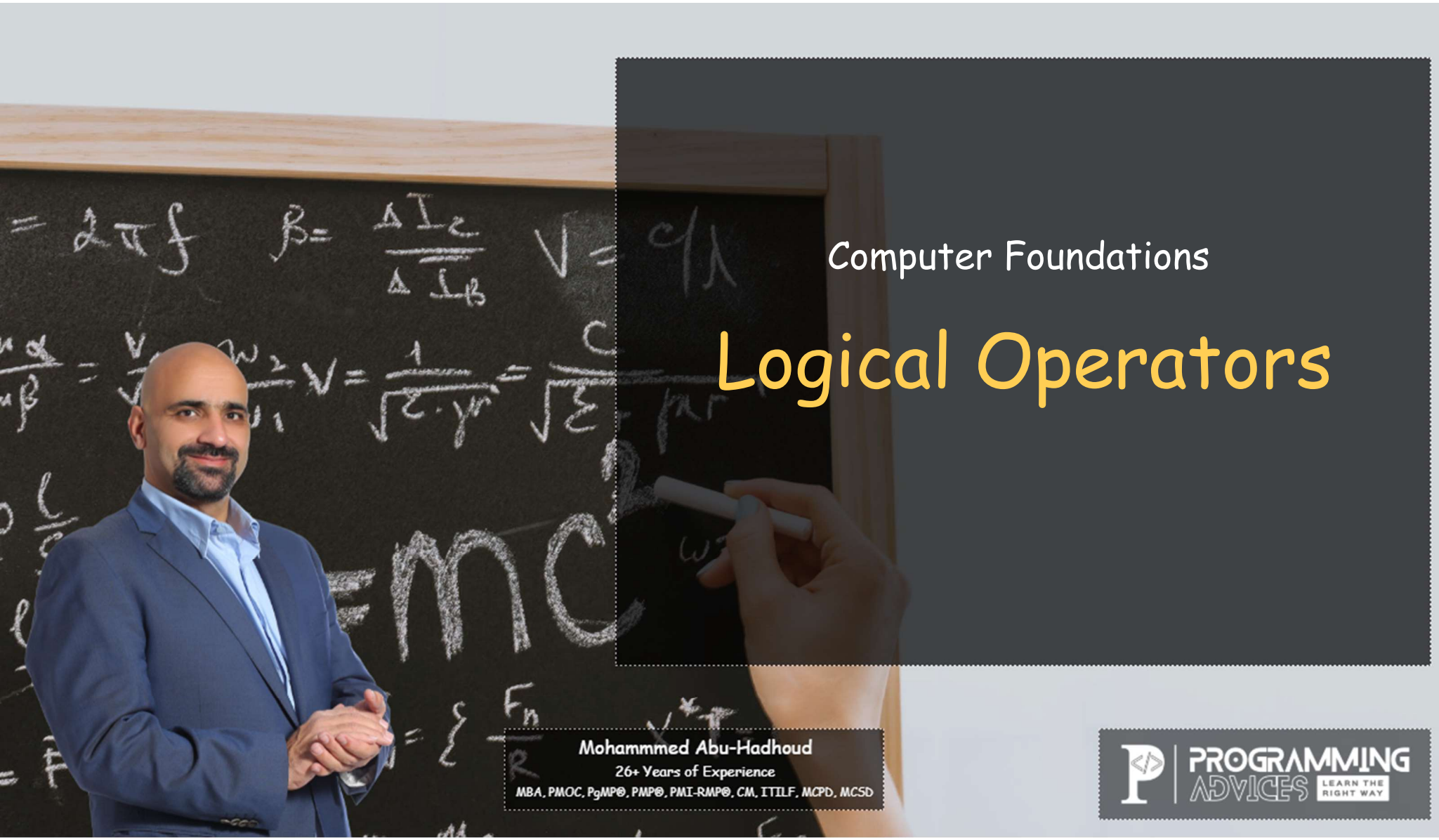

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Logical Operators

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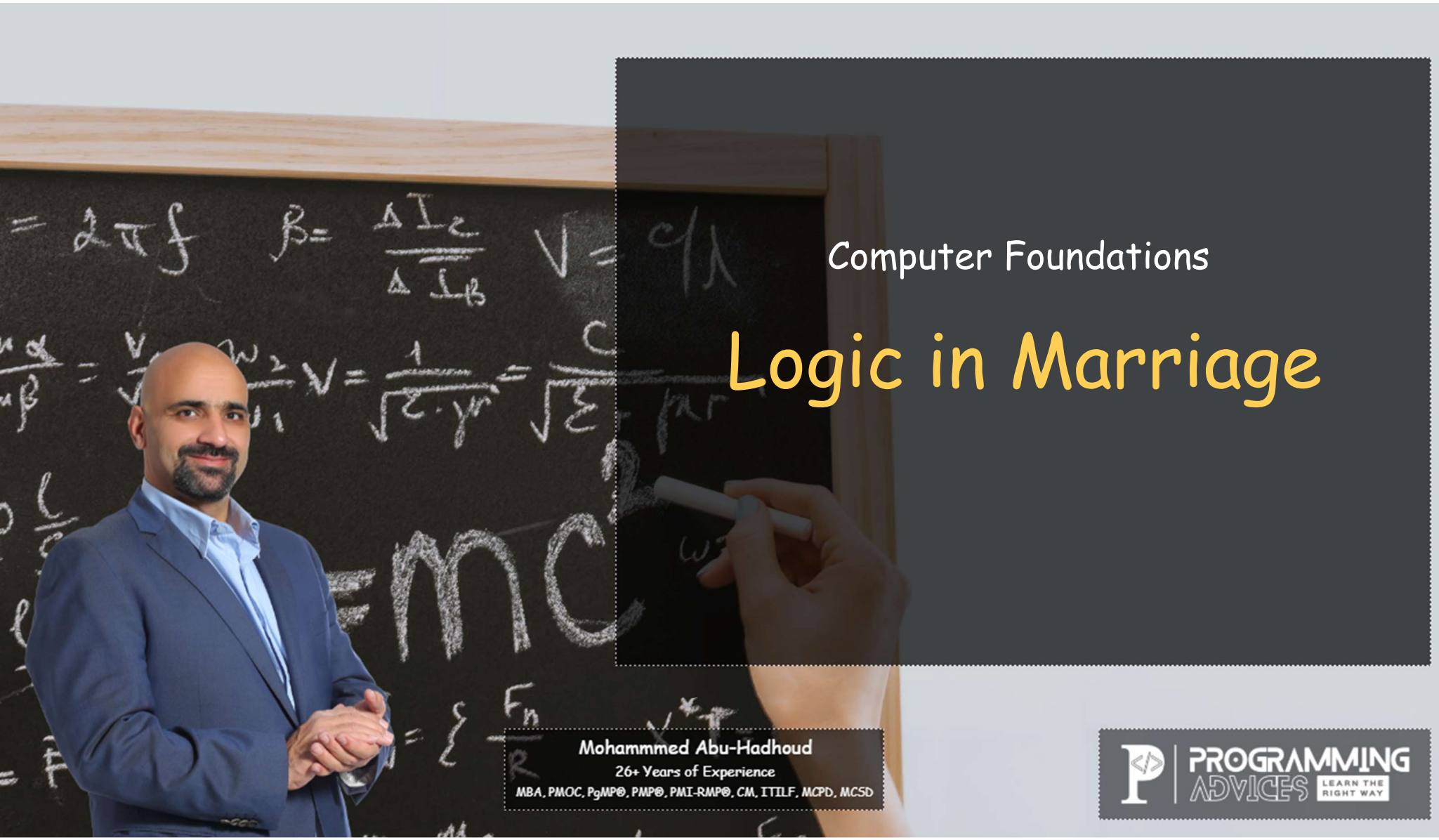

Computer Foundations

Logic in Marriage

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Logic in Marriage Life

Husband	Wife	Result
True	False	True
True	True	True
False	True	True
False	False	True

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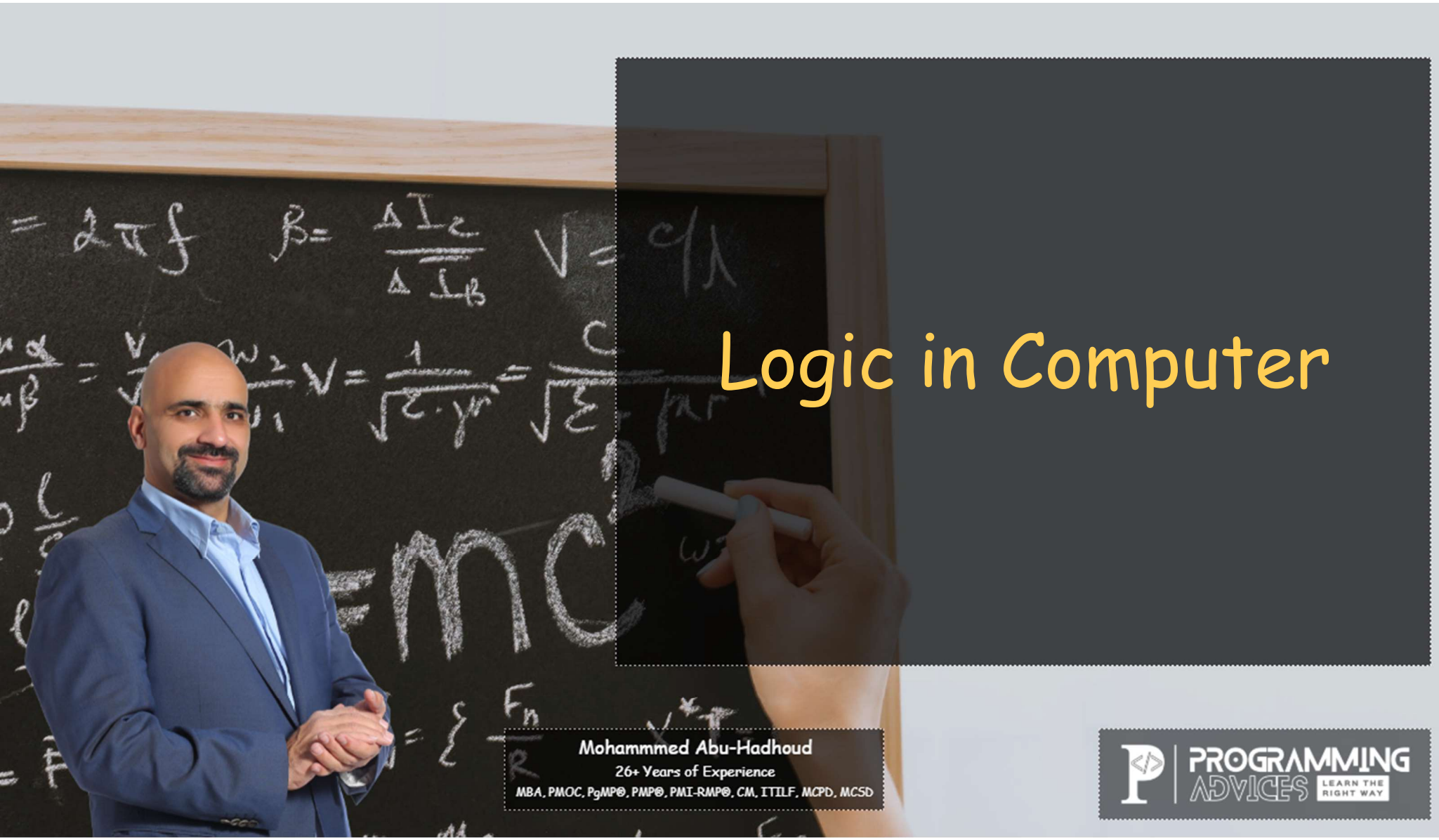
Logic in Computer
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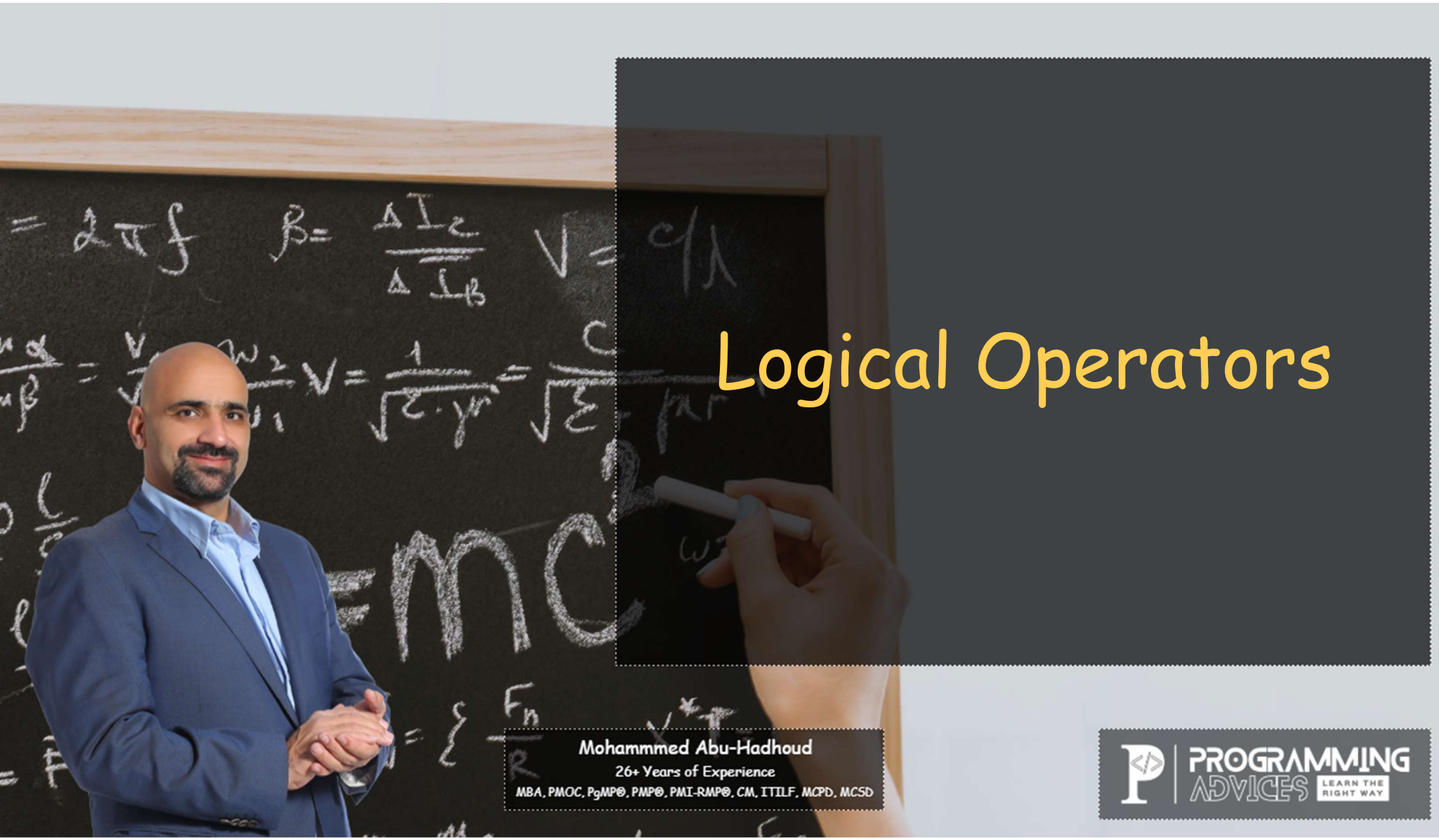
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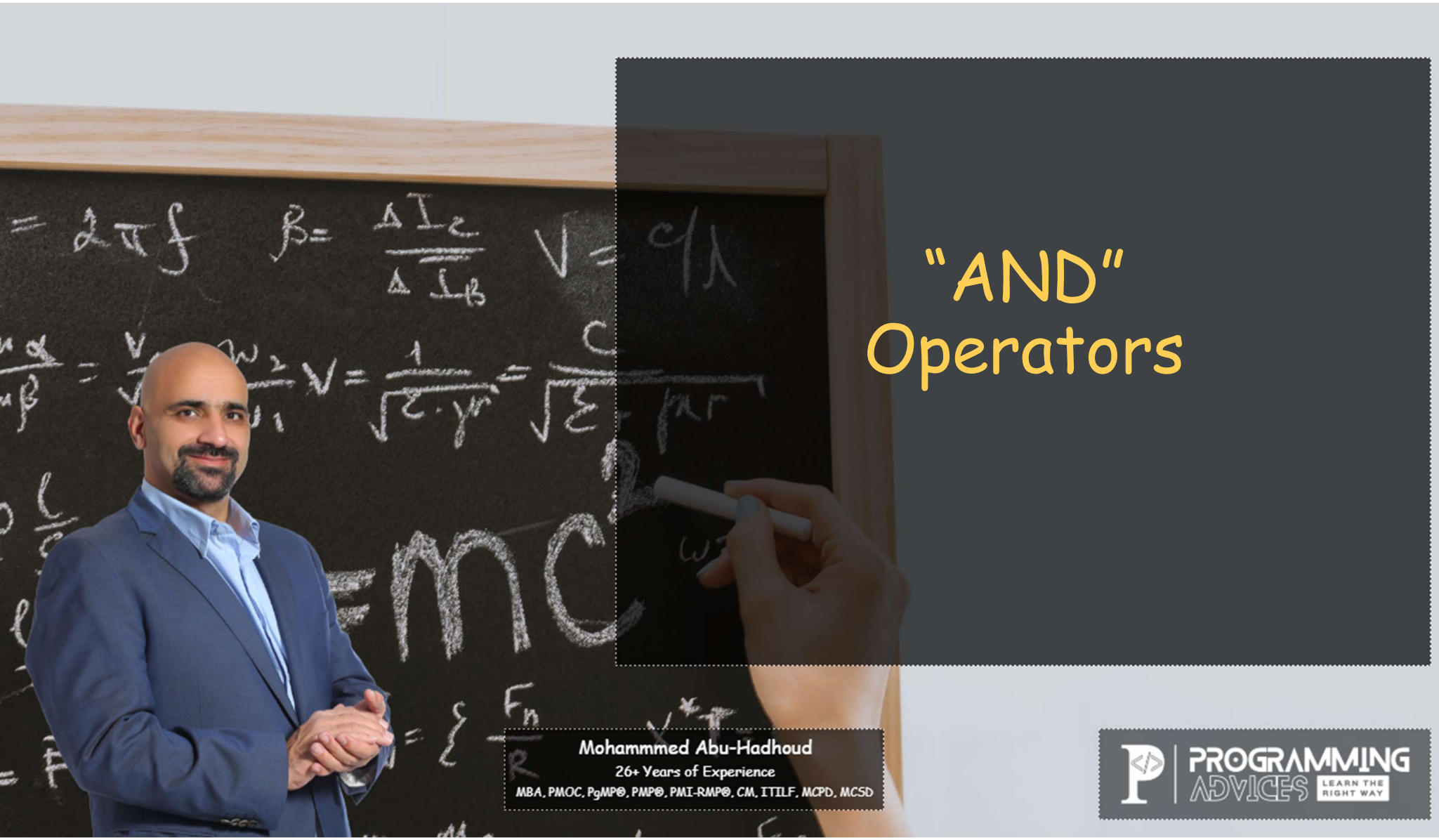

"AND" Operators

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Logical Operators

Operator	Computer Symbol	Example	
		Operation	Results
And	AND	True AND True	True
Or	OR	True OR False	True
Not	NOT	NOT True	False

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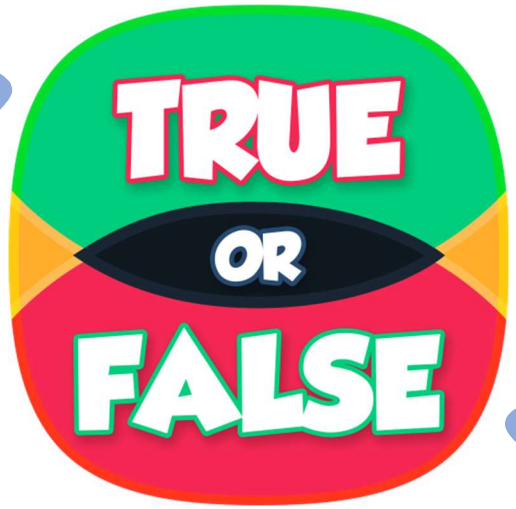
Logical Operators

(5 > 3) ➔ True

1



True ➔ 1

False ➔0

(5 > 7) ➔ False

0

(5 > 3) AND (5>7) ➔ False

True False

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Practical Example to learn "AND" operator:

IF you wan to get hired you have to have all the following conditions:

1. Your Age must be >= 21 years
2. You should have a driver license.

This in computer means:

(Age>=21 AND HasDriverLicesne=True) Then will be hired

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Logical "AND" Operator:

Condition A	Condition B	A AND B
Age	Has Driver License	
25 >= 21 ➔ True	Yes ➔ True	True
25 >= 21 ➔ True	No ➔ False	False
19 >= 21 ➔ False	Yes ➔ True	False
19 >= 21 ➔ False	No➔ False	False

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AND

Any "False" in AND the result is False

A	B	A AND B
True	True	True
True	False	False
False	True	False
False	False	False

A	B	A AND B
1	1	1
1	0	0
0	1	0
0	0	0

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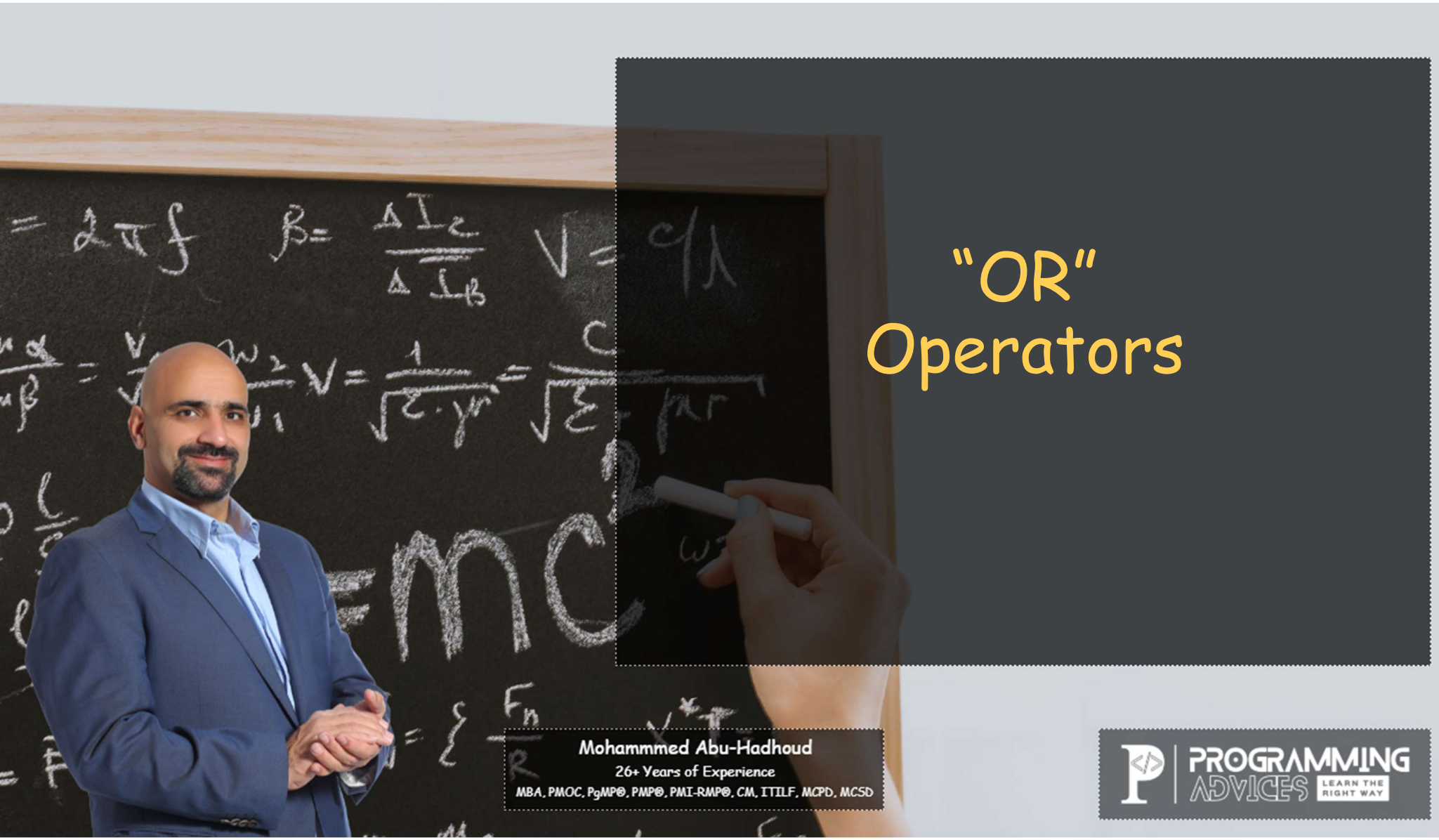

"OR" Operators

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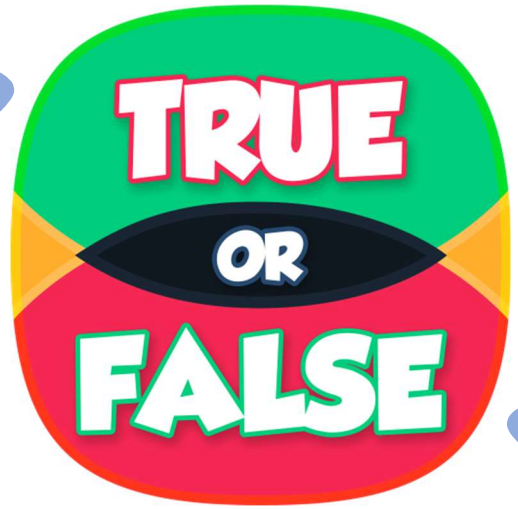
Logical "NOT" Operators



(5 > 3) ➔ True

1

True ➔ 1

False ➔0

(5 > 7) ➔ False

0

(5 > 3) OR (5>7) ➔ True

True False

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Practical Example to learn "OR" operator:

IF you wan to get hired you have to have at least One the following conditions:

1. Your Age must be >= 21 years
2. You should have a driver license.

This in computer means:

(Age>=21 OR HasDriverLicesne=True) Then will be hired

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Logical "OR" Operator:

Condition A	Condition B	A OR B
Age	Has Driver License	
25 >= 21 ➔ True	Yes ➔ True	True
25 >= 21 ➔ True	No ➔ False	True
19 >= 21 ➔ False	Yes ➔ True	True
19 >= 21 ➔ False	No➔ False	False

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OR

Any "True" in OR the result is True

A	B	A OR B
True	True	True
True	False	True
False	True	True
False	False	False

A	B	A OR B
1	1	1
1	0	1
0	1	1
0	0	0

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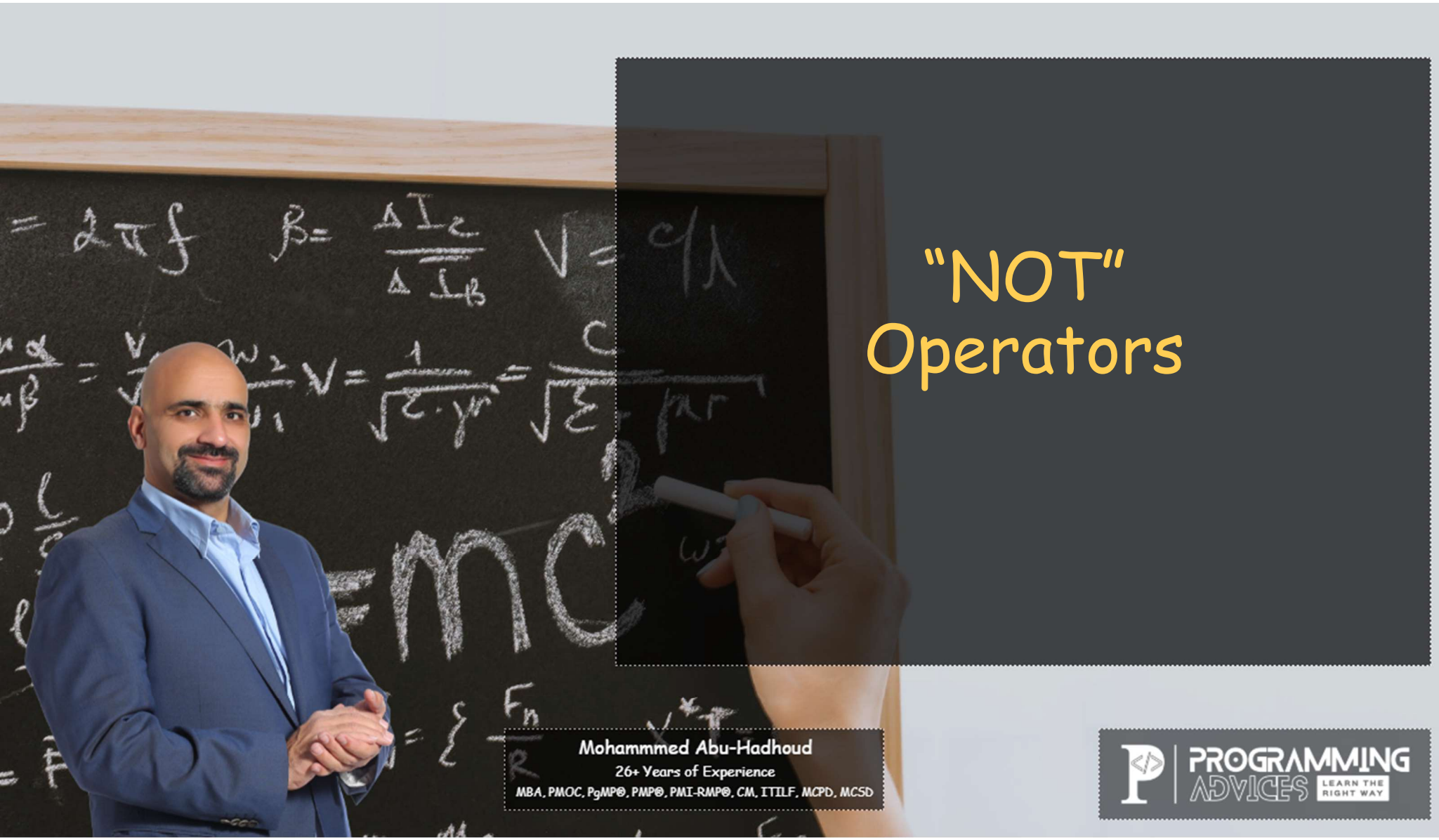
"NOT"
Operators
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Logical "NOT" Operator:

Condition A	NOT A
True	False
False	True

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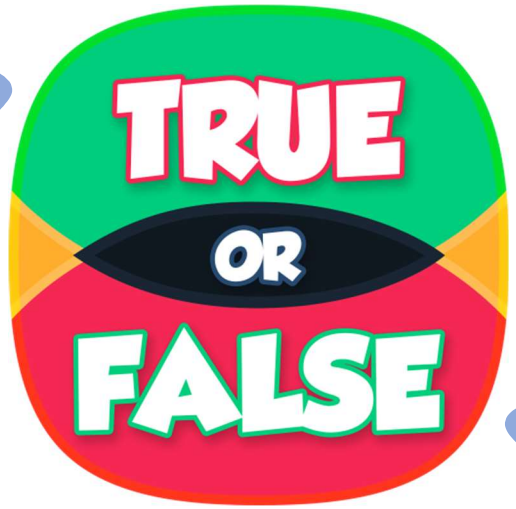
Logical "NOT" Operators

NOT (5 > 3) ➔ False

↓

0



True ➔ 1

False ➔0

NOT (5 > 7) ➔ True

↓

1

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Homework
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Solve the following problems:

12 >=12	NOT (12 >=12)	1 AND 1	(7 = 7) and (7 > 5)
12 > 7	NOT (12 < 7)	True AND 0	(7 = 7) and (7 < 5)
8 < 6	NOT (8 < 6)	0 OR 1	(7 = 7) OR (7 < 5)
8 = 8	NOT (8 = 8)	0 OR 0	(7 < 7) OR (7 > 5)
12 <= 12	NOT (12 <= 12)	Not 0	NOT (7 = 7) and (7 > 5)
7 = 5	NOT (7 = 5)	Not (1 OR 0)	(7 = 7) and Not (7 < 5)

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Thank You
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