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1) Differentiate betwee	n unary, and
binary operators with	examples.
-> Unday operators	Bingry Operators
- Undry Operators	- Bingry operators
perform un action	perform actions with
with a single operand,	two operands.
- Vnazy operators	- Binary Operators
have one operand/	need two operands.
Value that they work	Ex: y * 7 Coperands
with. Ex: X++ Cx is	are y and 7).
Operand).	The state of the s
	- they are moutherntical
	percutors and relational
	Operators
- A unary operator -	- A binary operator
	ppears with its
with its operand in of	
following formet:	format:
	personal operator operande
++ A	
- Example of unday -E	
operator, c	
PODE TO COMP	
prefix Cincremet Ha), Re	lational (<, <=, >, >= ,= ; !=)
(decremta) 200	
postfix Cincremt att, As	
·	HC
	TIC:

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2) (
Eunctionality and provide examples for
functionally and provide examples for
each category.
Perocitoss in C++ can be cutegorized
on their functionality.
1) Avithmetic Operators:
· Addition (+)
· Subtraction (-)
· Multiplication (*)
Division (1)
· Modulus (%)
2) Relational Operators:
Equal to (==)
· Not equal to C !=)
· Greater than (>)
· Less than (<)
· Crosenter than or equal to (>=)
· Less than or equal to (x=)
3) Logical operators:
Logical AND (88)
Logical OR (11)
· Logical Not (1)
4) Assignment Operators:
Assignment (=)
· Addition assignment (+=)
· Subtraction assignment (-=)
· Multiplication assignment (*=)
Marit

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Division assignment (==)	
1 1004145 assignment (%=)	
5) Increment and Decrement Operators:	
· Increment (++)	
Decrement C)	
6) Bitwise Operators:	
- Bitwise AND (8)	
· Bitwise OR (1)	
· Bitwise XOR (^)	
· Bitwise NOT (~)	
· left shift (<<)	
Right Shift (>>)	
7) ternary operator:	
· Conditional Operator	
8) Member Access Operators.	
Dot operators (.)	
· Asson obeamor (->)	
9) Other Operators:	
· Comma (3)	
· sizeof	
· Cast Operator (type)	
	118
What is type cousting and why it is nece	ssary
type conversion in C++ language, also know as type custing, refers to the process of	wn
converting a value from one dute type Ho)

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another.

- types of type conversion 1) Implicit type conversion: Implicit type conversion is performed by the compiler autometically during compilation. int num1 = 10; flout num2 = 5.5; flout ans = nym1 + mym2; // numi is implicitly converted to flocet before addition 2) Explicit type conversion: Explicit type conversion, or type custing, is done by the programmer explicitly using custing operators. Type custing is performed using custing operators like Ctype). int nym1 = 10; flow num2= 5.5; int ans = num1 + (int)num2; //num 2 is explicitly case to int before addition 4) Differente between implicit and explicit type cousting.

implicit type custing is performed automatically by the compiler, while explicit type custing requires explicit instruction from the programmer using

Casting operators. Implicit casting is Sufer and generally results in fewer errors, conile explicit casting provides more control over the conversion process but requires careful hundling to avoid potential issues such as duta loss or unexpected behavior.

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5) Explain Operator precendence by solving any expression with appropriate steps. > Operator precedence refers to the rules that determine the order in which Operators are evaluated in an expression. Operators with higher precedence are evaluated before operators with lower precedence. to illustrate Operator precedence, let's solve the expression 15 x 2+10/2-3' I. Multiplication: Evaluate the multiplication operation 15 *21. Result: 10' 2. Division: Evaluate the division Operation.

10/2 . Result: 5'

3. Addition: Everyate the addition '5+5' Result: Jo'

4. Subtraction: Evaluate Subtraction

operation' jo-3' Result: 7'

so, the final result of the expression 15 x 2 + 10/2-31 15 7.