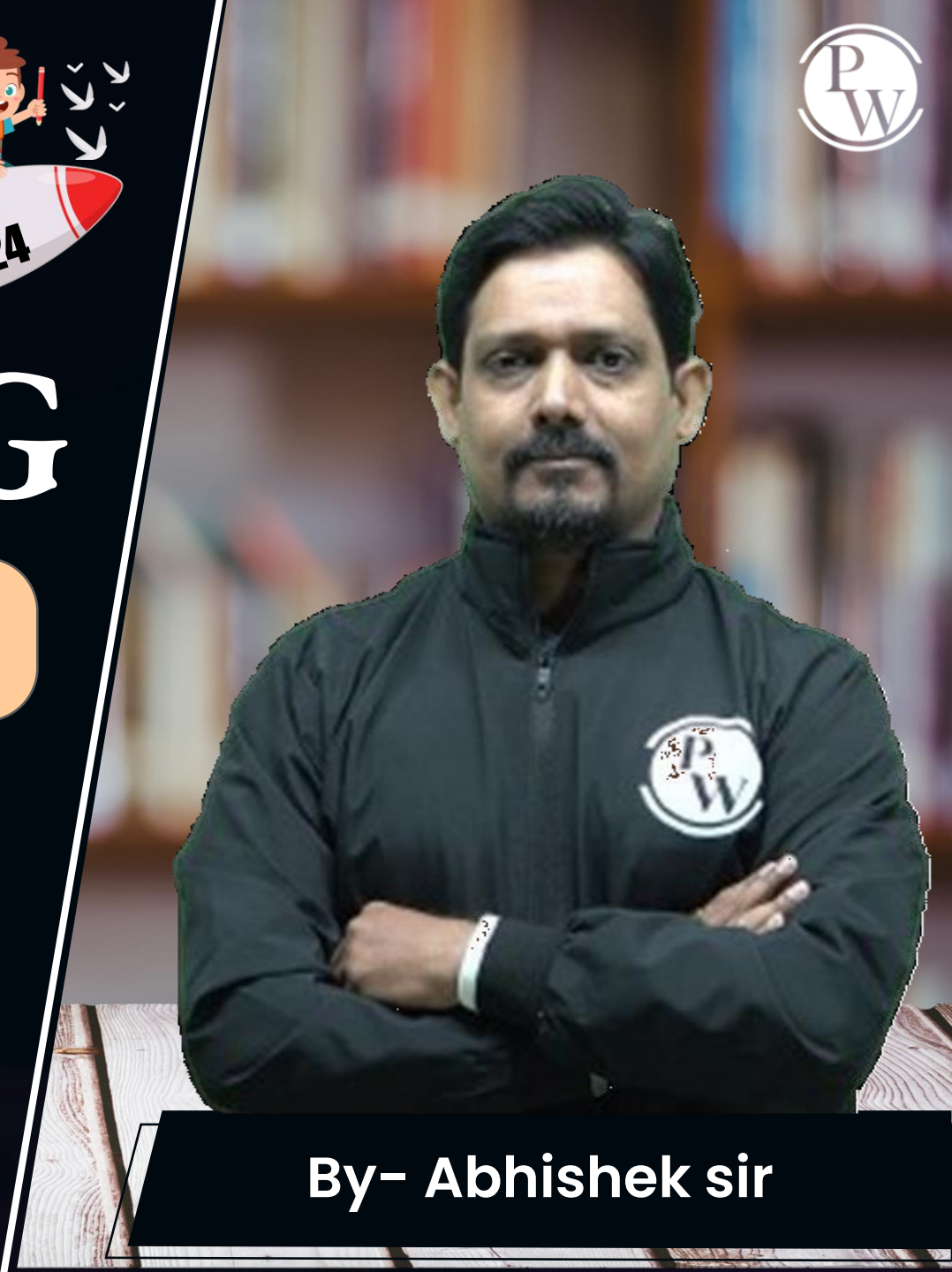
CS & IT ENGINEERING

C-Programming

Data Types and Operator

DPP 01 Discussion Notes



By- Abhishek sir

[MCQ]

#Q. Which of the following is not a valid identifier?

A main ← Identifier

B sizeof – keyword

C _pw – Identifier

D _pw_ Identifier

[13]

[MCQ]

#Q. Which of the following is not a keyword?

A goto — keyword

B volatile — keyword

C main ← name of function

D unsigned — keyword

[C]

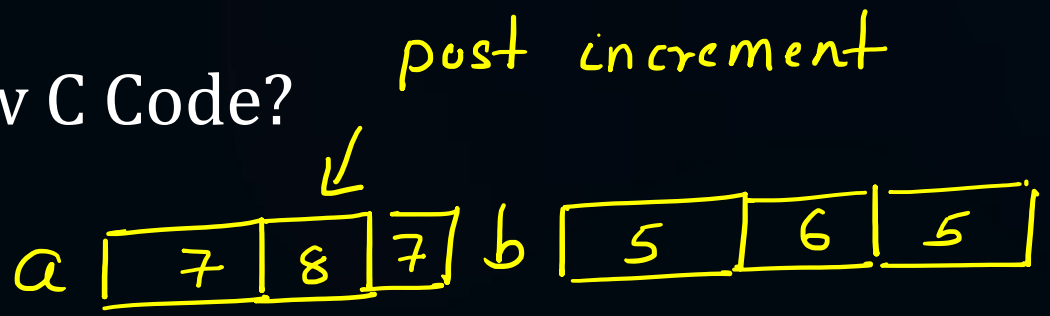
[MCQ]

#Q. What is the output of below C Code?

```
void main()
{
int a=7,b=5,c,d;
c= a++ + ++b;
d= --b + a--;
printf("%d %d", d, c);
}
```

13, 13

post increment



c = 7 + 6 = 13

d = 5 + 8 = 13

[D] Ans

A 13, 12

B 12, 12

C 12, 13

D 13, 13

[MCQ]

#Q. The output of below C code is _____

```
void main()
{
int i=9, j=12, k, x;
k=i=j;
x=i==j;
printf("%d %d", k, x);
}
```

12, 1

i 9 12

k 12

j 12

k = i = j

Right Associative

x = i == j

Relational operator

12 == 12

x = 1

A 9, 12

B 12, 1

C 12, 0

D 9, 0

[B]

[MCQ]

#Q. The smallest individual element of any 'C' program is called as _____

A variables

B constants

C Tokens

D Keywords

tokens [C]

[MCQ]

#Q. Which of the below is not a 'C' Token?

A Identifiers

B Keywords

C Operators

D Expressions ✓

Six category of token

[D]

Identifier
Operator
keywords
Literals
Constant
Special character

[MCQ]

#Q. Any number with fractional part is said to be _____

A Integer Constant ✗

B Real Constant ✓

C Character Constant ✗

D String Constant ✗ ~~Term~~ Literals

Constant ∴ Real No.

[B]

[MCQ]

#Q. What will be the output of below 'C' code?

```
void main()
{
int i=+17, j=-7;
printf("%d,%d", i/j, i%j);
}
```

+17 ↑ as Numeric constant

17/-7 integer and integer

Q : -2
R : 3

17/-7

Q = -2

Remainer -3

-2
−17/7 2 = 1 = -2

Remainder :

Dividend +ve

Remainder +ve

- A -2, 3
- B 2, -3
- C 2, 3
- D -2, -3

[A]

[MCQ]

#Q. Identify the correct Precedence of below operators:

I) ++ (Postfix)

II) && (Logical AND)

III) ^ (Bitwise XOR)

IV) >> (Right Shift)

Unary operator

Rightshift Operator

Bitwise XOR

Logical AND

A I, II, III, IV

B I, III, II, IV

C I, IV, II, III

D I, IV, III, II

[D]

[MCQ]

#Q. Match the following:

LIST - I	LIST - II
A. ||	1. Relational
B. !=	2. Unary
C. +(sign)	3. Bitwise

|| Logical or

A — 3
B — 1
C - 2

A. A-2, B-3, C-1

B. A-3, B-2, C-1

C. A-3, B-1, C-2

D. A-2, B-1, C-3

[c]

Answer

[MCQ]

#Q. Which of the below operators associativity is Right To Left?

A Shift Operators - Left to Right

B Logical Operators Left to Right

C Prefix, Unary Operators

D Arithmetic Operators

Associativity Right to Left

[C]

operator = operator
? operator

prefix

*&~!a

Right to Left.

[MCQ]

#Q. Which of the below operators Which combination of the integer variable x, y and z makes the variable a get the value 4 in the following is expression?

a = (x > y) ? ((x > z) ? x : z) : ((y > z) ? y : z)

3 4 3 2 3 2 4 2 4 2

? 3 4

A x = 3, y = 4, z = 2

B x = 6, y = 5, z = 3

C x = 6, y = 3, z = 5

D x = 5, y = 4, z = 5

MCQ — [A]

[MCQ]

#Q. The output of below C code is _____

```
void main()
{
int x;
x= 7 + 4 * 5 / 2 - 2;
printf("%d", x);
}
```

left

$x = 7 + 4 * 5 / 2 - 2$

$= 7 + 20/2 - 2$

$= 7 + 10 - 2$

$= 17 - 2 = 15$

[A]

A 15

B 13

C 25

D 11

[MCQ]

#Q. The output of below code will be _____

```
void main()
{
int i=5, j=-3, k=0;
int x;
x= i ? j ? k ? k : i : j : k;
printf("%d", x);
}
```

5 ? -3 ? 0 ? 0 : 5 : 3 : 0

= 5 ? -3 ? 5 : 3 : 0

= 5 ? 5 : 0

x = 5

? operator is Right Associative

(5)

A 0

B -3

C 5

D Error

[C] Ans

[MCQ]

#Q. Match The Following:

List-I		List-II
a.	&	1. Indirection
b.	*	2. Arithmetic Division
c.	->	3. Bitwise
d.	>>	4. Member Access

& - bitwise AND a - 3

* → Indirection - b - 1

→ . Member Access - c - 4

>> Right shift - Divide by 2

d - 2

A a-2, b-3, c-1, d-4

B -a-3, b-1, c-2, d-4

C a-3, b-1, c-4, d-2

D a-3, b-4, c-1, d-2

[c] Ans

[MCQ]

#Q. What is the output of below code?

```
int main()
{
int a;
a= 18 + 43 / 2 * 3 >> 4 – 2;
printf("%d", a);
return 0;
}
```

A 3

B 4

C 5

D 20

+ and - having higer precedence than >>

a = 18 + 43/2 * 3 >> 4 - 2

= 18 + 21 * 3 >> 4 - 2

= 18 + 63 >> 4 - 2

= 81 >> 2 = $\frac{81}{2^2}$

= $\frac{81}{4}$ = 20

Ans - D 20 Au

THANK - YOU