



“चला तर, Coding  
शिकू आपल्या भाषेत!”



# Marathi Coding Shala

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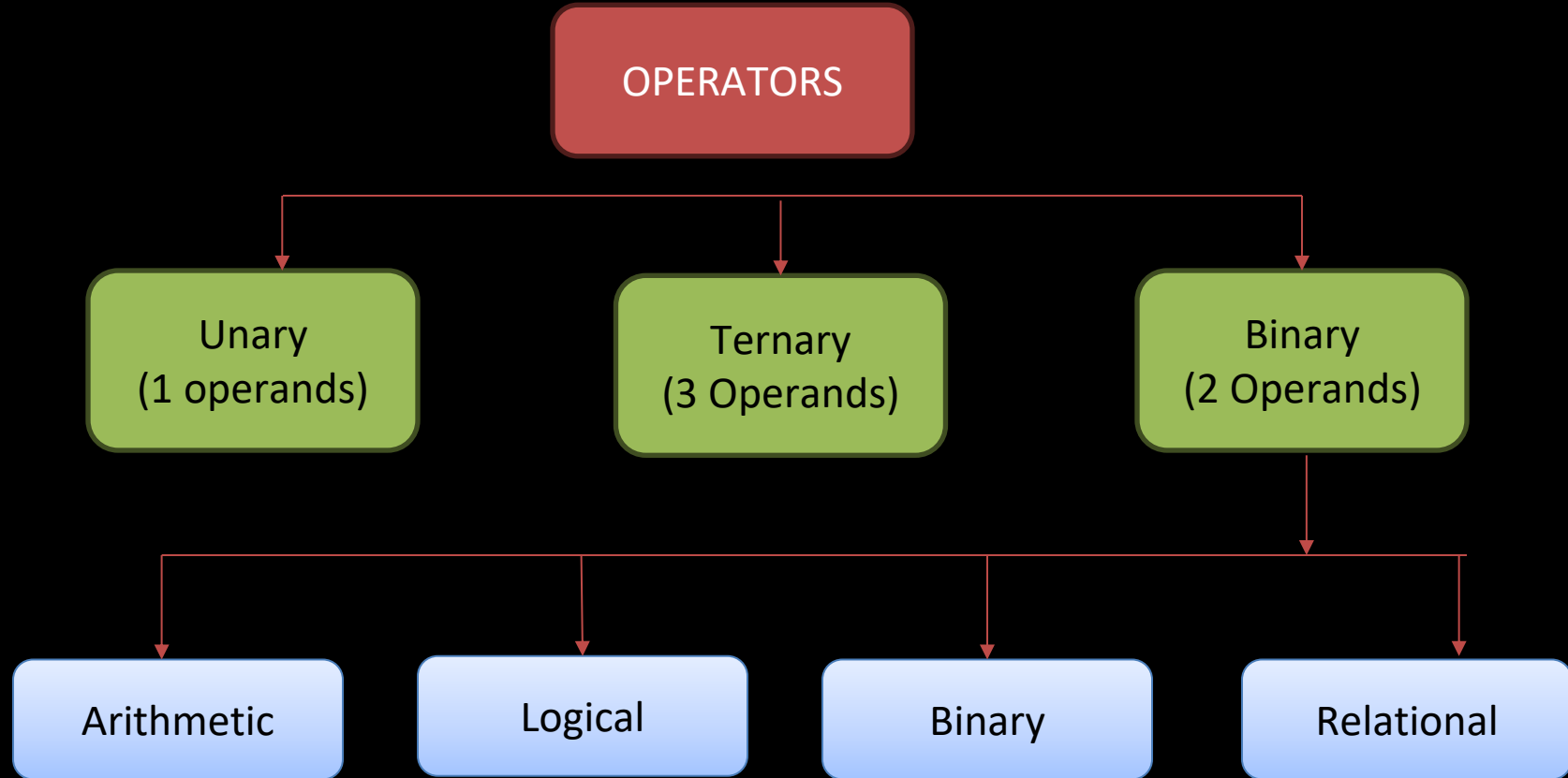
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## ❑ Types Of Operators:



Unary  
operator

Binary  
Operator

Ternary  
Operator

Operators	Type
++,--	Unary Operator
+, -, *, /, %	Arithmetic Operator
<, <=, >, >=, ==, !=	Relational operator
&&,   , !	Logical Operator
&,  , <<, >>, -, ^	Bitwise Operator
=, +=, -=, *=, %=	Assignment Operator
?:	

# Bitwise Operator:

- 1.Bitwise OR(|)
- 2.Bitwise AND(&&)
- 3.Bitwise XOR(^)
- 4.Bitwise not(~)
5. Bitwise left shift(<<)
- 6.Bitwise right shift(>>)

Unary Opeartor

## Bitwise Not( $\sim$ )

a	$\sim a$
0	1
1	0

## Bitwise OR(|):

Dono me se eke bhi one hai to or karne per output 1hi aayga

a	b	a b
0	0	0
0	1	1
1	0	1
1	1	1

# Bitwise OR(|):

```
#include<stdio.h>

void main(){

    int a=3,b=11,c;

    c=a|b;

    printf("%d",c);

}
```

0011 (binary of 3)

|

1011(binary of 11)

---

1011



## Bitwise AND(|):

Dono me se eke bhi ZERO hai to AND karne per output 0 hi aayga

a	b	a&&b
0	0	0
0	1	0
1	0	0
1	1	1

# Bitwise AND(&&):

0011 (binary of 3)

&&

1011(binary of 11)

0011 (matching positions in both numbers)

```
#include<stdio.h>

void main(){

    int a=3,b=11,c;

    c=a && b;

    printf("%d",c);

}
```

# Bitwise AND(&&):

```
#include<stdio.h>

void main(){

    int a=3,b=11,c;

    c=a && b;

    printf("%d",c);

}
```

0011 (binary of 3)

&&

1011(binary of 11)

---

0011 (matching positions in both numbers)

## Bitwise X-OR(^):

Dono me bhi same hai to x-or karne per output 0 hi aayga

a	b	a^b
0	0	0
0	1	1
1	0	1
1	1	0

# Bitwise X-OR(^):

0011 (binary of 3)

$\wedge$

1011(binary of 11)

---

1000

```
#include<stdio.h>

void main(){

    int a=3,b=11,c;

    c=a ^ b;

    printf("%d",c);

}
```

# Bitwise left shift(<<):binary operator

```
#include<stdio.h>

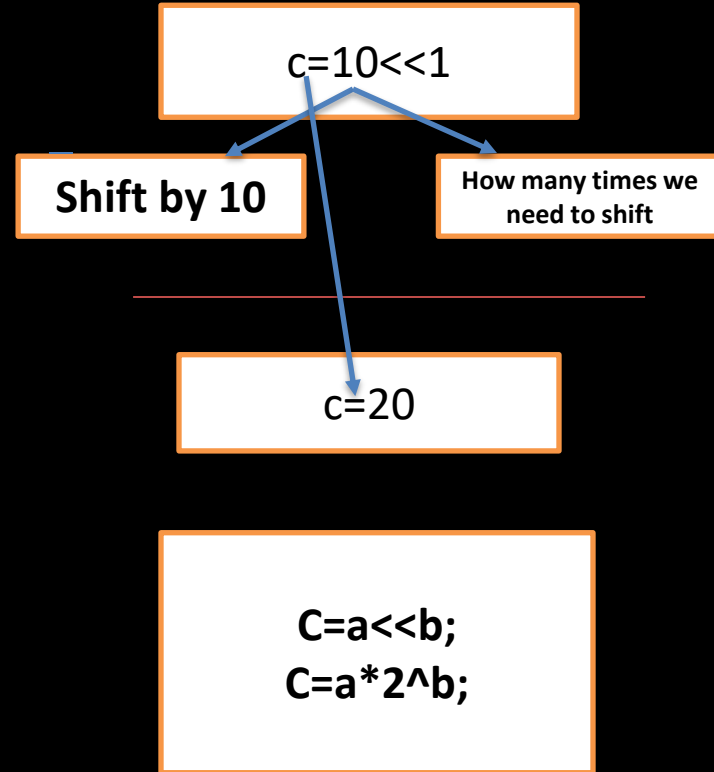
void main(){

    int a=10,b=1,c;

    c=a << b;//left shift

    printf("%d",c);

}
```



# Bitwise right shift(>>):binary operator

```
#include<stdio.h>
```

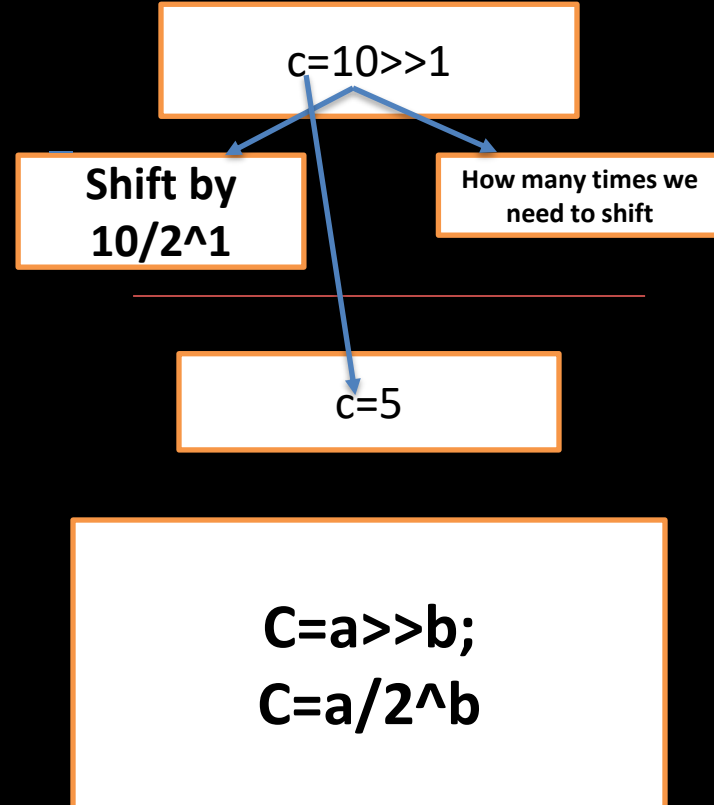
```
void main(){
```

```
    int a=10,b=1,c;
```

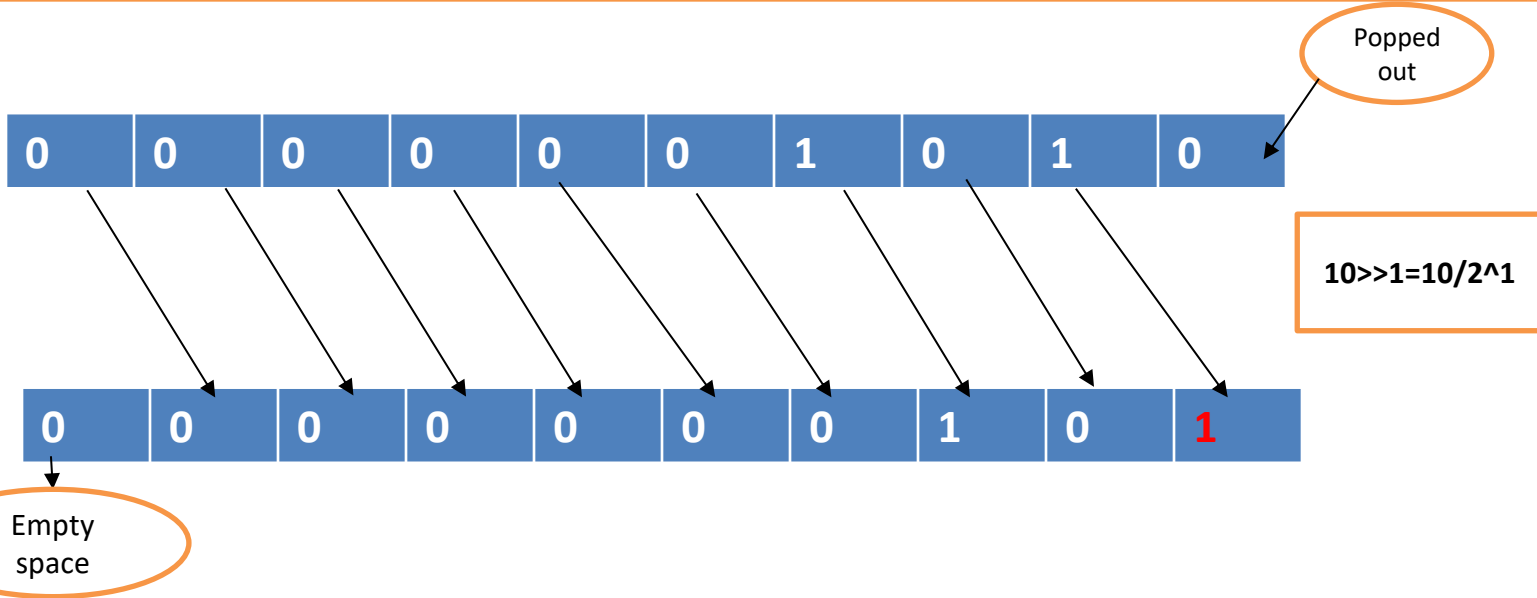
```
    c=a >> b;//Right shift 10>>1
```

```
    printf("%d",c);
```

```
}
```



# Bitwise right shift(>>):





How to store Negative Number in computer Memory?

Signed magnitude

0,1

**+7=111**



**-7=111**

Signed bit

**+ve=0**

**-ve=1**

7 bit  
magnitude

## 2's complementation

1)+ve :as it is

2)-ve :2's complementation

0001  
1's complementation=1110  
+ 1  

---

2's complementation= 1111

## Programs

1. 1's Complement of a Number
2. 2's Complement of a Number
3. Swap Two Numbers Without Temporary Variable



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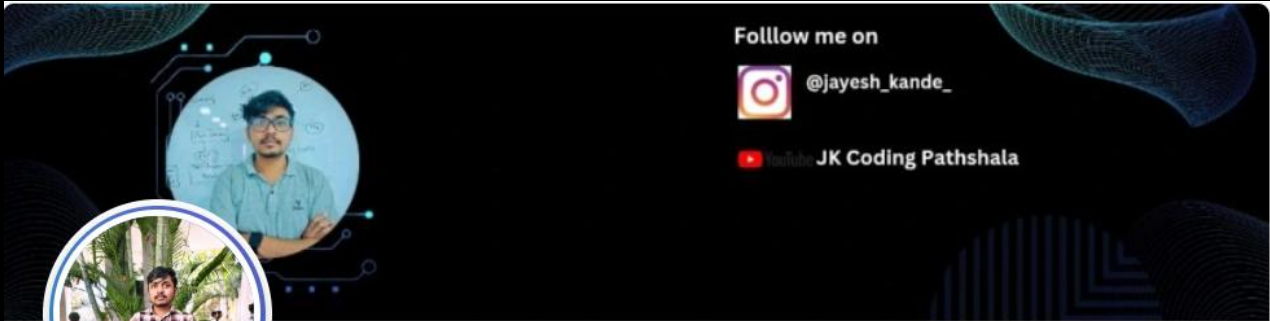
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**Jayesh Kande**

Faculty at Coding Seekho (Offline + Online)|IT Engineering |  
Aspiring Web Developer | Java Enthusiast | Data Structures  
& Algorithms | Proficient in C, C++, Java, and MERN Stack |  
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# JK Coding Pathshala

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