

A job ready bootcamp in C++, DSA and IOT

Decision Control instruction



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Agenda

- ① Control Statements
- ② Decision Control Statements
- ③ if
- ④ if-else
- ⑤ Conditional Operator
- ⑥ Nested if-else
- ⑦ if else ladder

Control Statements

1. Decision Control Statements
2. Iterative Control Statements
3. Switch Case Control Statements
4. Goto Control Statements.

Decision Control Statements

- if
- if else
- Conditional Operator

```
int main()
```

```
{
```

```
    if(—)
```

```
{
```

```
}
```

```
    —
```

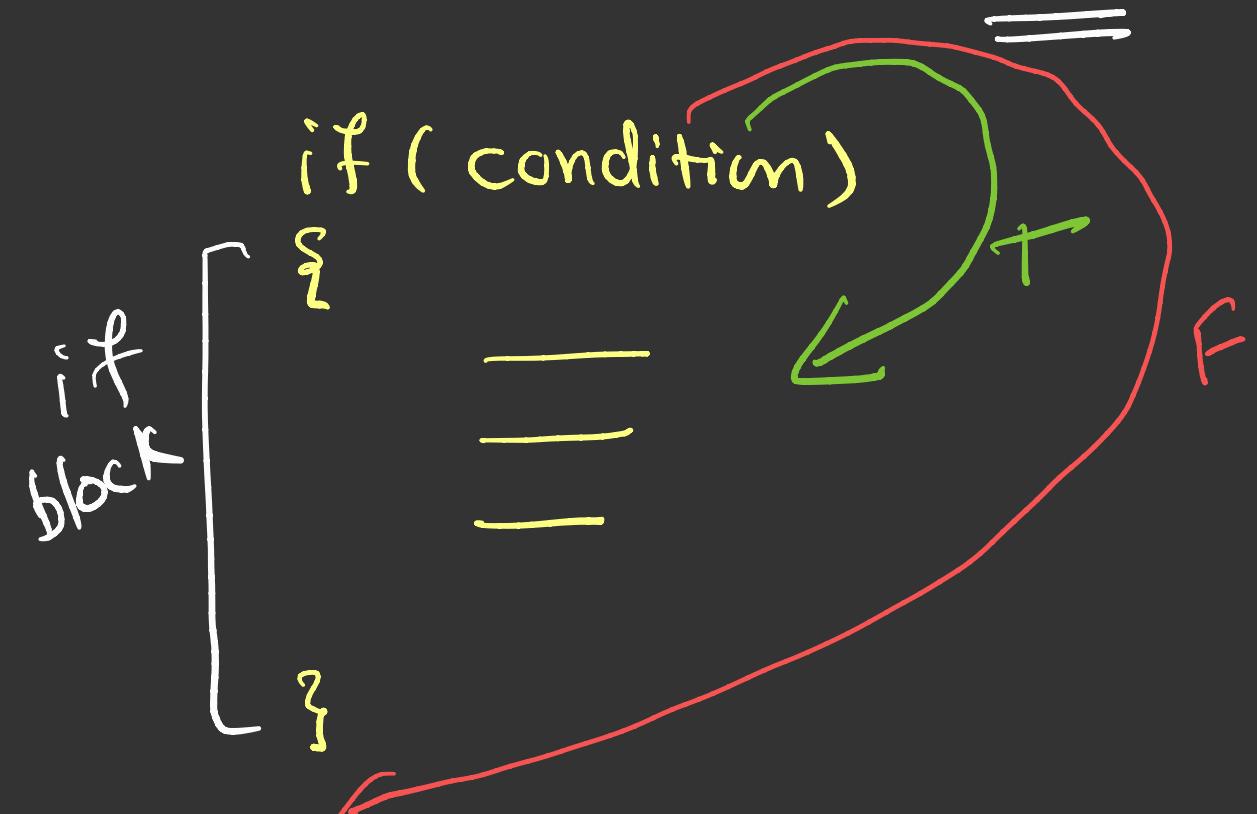
```
    —
```

```
    —
```

```
    —
```

```
}
```

if



यादि अथवा

जब (TV)

{ पद्धति

}

Write a program to check whether
a given number is positive or non positive.

5	-3
positive	Non-positive
0	
Non Positive	

- ① Understand problem
- ② Test case
- ③ Dry run

if - else

if (condition)

==

T

else

{

==

F

}

तर्फ (TV)

पढ़ाइ

नहीं तो

जाहर

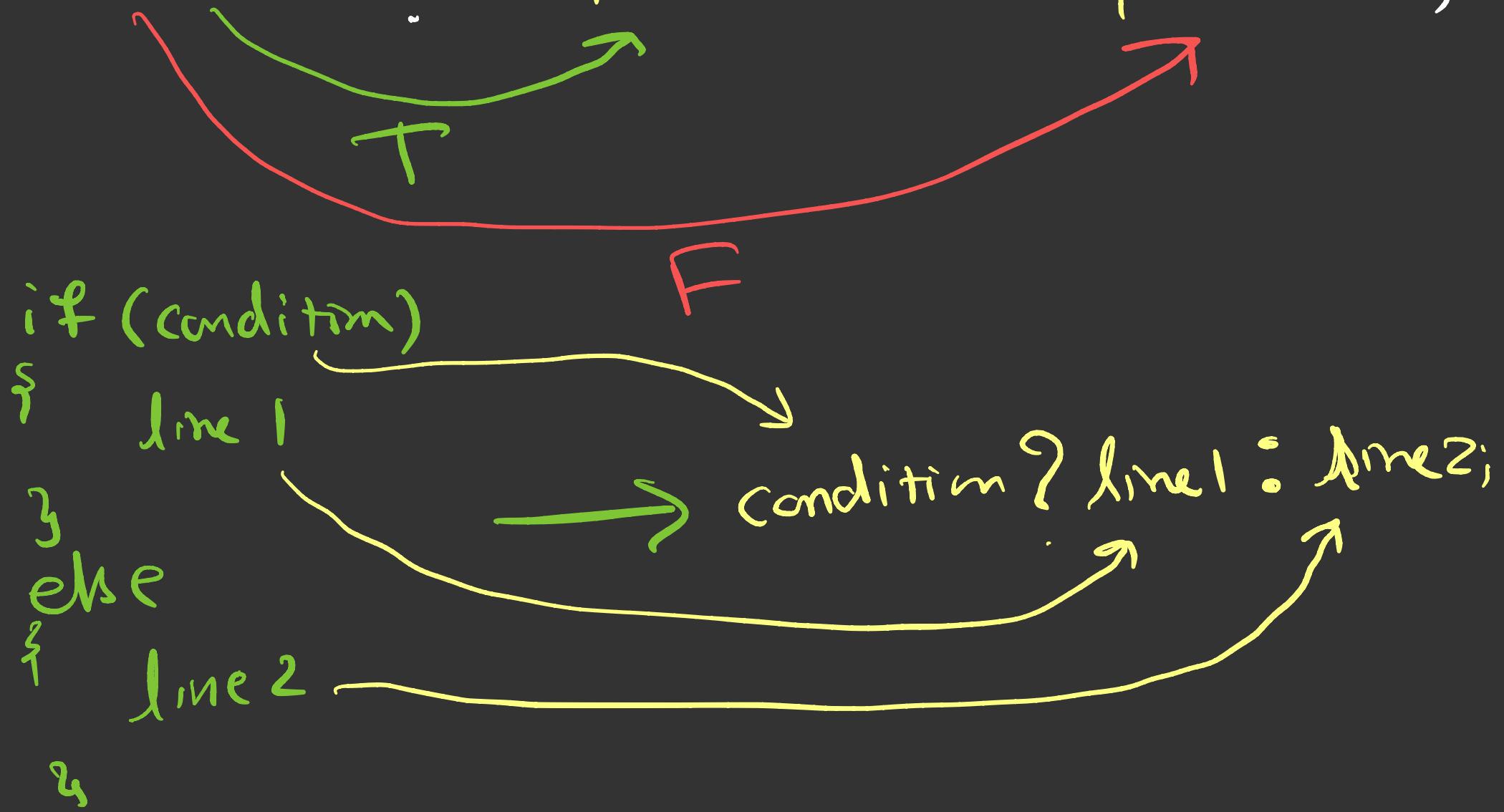
४

Write a program to check whether a given number is a positive or a non positive.

Ternary Operator

Conditional Operator

expression1 ? expression2 : expression3 ;



Write a program to check whether a given number is a positive or a nonpositive.

What is the difference between conditional operator and if else?

conditional operator is an expression and if else is not an expression

$x = \text{if } (-)$
 $\{\quad\}$
 $\text{else}\quad$
 $\{\quad\}$
 a

$x = -? - :-$

$x = a > b ? a : b ;$
 $\nwarrow \swarrow$
 $x = a \qquad x = b$

Nested if else

```
if (condition)
{
    if (condition)
    {
        =
    }
}
```

```
if (condition)
{
    if (condition)
    {
        =
    }
    else
    {
        =
    }
    else
    {
        =
    }
}
```

Find output of the following program.

```
int main()
{
    int x = 5;
    if (x > 0)
    {
        printf("Hello");
    }
    printf("%d", x);
}
```

Find Output of the following program.

```
int main()
{
    int x=0;
    if(x)
    {
        printf("Hello");
    }
    printf("\n%d",x);
}
```

Find Output of the following program.

```
int main()
{
    int x=5;           x  
54
    if (x=4)
        printf("Hello");
    else
        printf("Bye");
    printf("%d", x);
}
```

- (a) Hello5
- (b) Bye 5
- (c) Hello4
- (d) Bye 4

find output of the following program.

```
int main()
{
    int x=5;
    if (x==4)
        printf("Hello");
    printf("%d", x);
    else
        printf("Bye");
    printf("%d", x);
}
```

if (~)

if ()

{ } ==

} ==

else
{ }

)