

If else ,ternary & switch

Lecture- 4

Raghav Garg

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Control Statements

(continued)

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Predict the output

```
#include<iostream>
using namespace std;
int main() {
    int x = 10, y = 20 ;
    if (x == y) ;
        cout << x << " " << y ;
    return 0;
}
```

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Predict the output

```
int main() {  
    int x = 3, y = 5 ;  
    if (x == 3)  
        cout << x << endl;  
    else ;  
        cout << y << endl;  
    return 0;  
}
```

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Ternary Operator

expression 1 ? expression 2 : expression 3

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Ques : Given the marks of the student. If the marks are greater than 33 print the result as pass otherwise fail without using if-else statement.

Predict the output

```
#include<iostream>
using namespace std;
```

```
int main(){
    char x;
    int a = 2;
    x = (a > 0) ? 'a' : 'S';
    cout << "Value of x : " << x << endl;
    cout << "Value of a : " << a;
    return 0;
}
```

Predict the output

```
int main(){
    int x;
    x = 5 > 8 ? 10 : 1 != 2 < 5 ? 20 : 30;
    cout<<"Value of x : "<<x;
    return 0;
}
```

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Predict the output

```
int main(){
    int test = 0;
    float f = 3.111;
    cout << (test > 0 ? f : 0) << endl;
    return 0;
}
```

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Switch Statement

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```
switch ( integer expression ) {  
    case constant 1 :  
        do this ;  
    case constant 2 :  
        do this ;  
    case constant 3 :  
        do this ;  
    default :  
        do this ;  
}
```

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Ques : Write a program to input week number(1-7) and print day of week name using switch case.

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Ques : Write a program to input month number and print total number of days in month using switch case.

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Ques : Write a program to create a calculator that performs basic arithmetic operations (add, subtract, multiply and divide) using switch case and functions. The calculator should input two numbers and an operator from user.

Predict the output

```
int main() {  
    int x = 3, y, z ;  
    y = x = 10 ;  
    z = x < 10 ;  
    cout << "x = " << x << "y = " << y << "z = " << z ;  
    return 0;  
}
```

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Predict the output

```
#include<iostream>

using namespace std;

int main( ) {
    int k = 35 ;

    cout <<( k == 35) <<endl << (k == 50) <<endl << (k > 40 ) ;

    return 0;
}
```

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Predict the output

```
#include<iostream>
using namespace std;
int main( ) {
    int i = 65 ;
    char j = 'A' ;
    if ( i == j )
        cout << "P stands for PhysicsWallah" ;
    else
        cout<<"P stands for pwskills" ;
    return 0;
}
```

The Real Thing:

```
if ( 3 + 2 % 5 )  
    cout << "This works" ;  
if ( a = 10 )  
    cout << "Even this works" ;  
if ( -5 )  
    cout << "Surprisingly even this works" ;
```

The Real Thing:

```
if ( condition )  
    statement ;
```

```
if ( expression )  
    statement ;
```

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THANK YOU

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