

## Lab 08 Tasks

### Task 01

Write a program that takes four input integers from the user. Then compare and display a message whether these integers are equal or not.

### Task 02

Use `cmp` and jumps to find the first non-zero value in the given array:

```
intArr SWORD 0, 0, 0, -150, 120, 35, -12, 66, 4, 0
```

### Task 03

Implement the following given code in Assembly and Consider `var = 5`, `edx = var+1` and counter value from array initialized in **Task 02**.

```
if (var < ecx & ecx >= edx) {  
    x = 0;  
else {  
    x = 1;  
}
```

The program should display a message for both `if` block and `else` block, i.e.,

`x = 0`

Condition is True

OR

`x = 1`

Condition is False

### Task 04

Implement the following given code in Assembly and consider `var = 0`.

```
while (var <= 10) {  
    if (var < 5) {  
        cout << "Hello World!";  
    }  
    else {  
        cout << "Condition is False!";  
    }  
    var +=1;  
}
```

The string `"Hello World!"` should be printed 5 times and the string `"Condition False"` should be printed 6 times on the console.

### Task 05

Write a program to print weekday based on given number.