

LAB 9

Course Code: CSC 2209

Course Title: Operating Systems



**Dept. of Computer Science
Faculty of Science and Technology**

Lecturer No:	09	Week No:	09	Semester:	
Lecturer:	<i>Name & email</i>				

Lecture Outline



1. Control Flow Statements
2. Cases
3. Logical Operators

Control Flow Statements

- ❑ **if else statement**

- ❑ Syntax

- if [condition]

- then

- Statement

- else

- Statement

- fi

*****There must be a space before and after the condition*****

if [condition] not correct

Must be written like this if [condition]

Control Flow Statements

- ❑ **if else if statement**

- ❑ Syntax

- if [condition]

- then

- Statement

- elif [condition]

- then

- Statement

- else

- Statement

- fi

Example

```
count=10
if [ $count -eq 9 ]
then
    echo "Hello World"
else
    echo "Hello OS"
fi
```

Cases

- ❑ Used for multi level if conditions that means else if conditions.
- ❑ Syntax

```

case expression in
    pattern )
        statement
    ;;
    pattern )
        statement
    ;;
    * )
        echo Default
    ;;
esac

```

Example

```
var="Rahim"
case $var in
    "Karim" )
        echo "Karim is good"
    ;;
    "Rahim" )
        echo "Rahim is bad"
    ;;
    * )
        echo "Unknown"
    ;;
esac
```

Logical Operators

- ❑ OR operator

```
val=10
if [ $val -gt 18 ] || [ $val -lt 30 ]
then
    statement
else
    statement
fi
```

- ❑ Another approach

```
val=10
if [ $val -gt 18 -o $val -lt 30 ]
then
    statement
else
    statement
fi
```


Logical Operators

- ❑ Another approach

```
val=10
if [[ $val -gt 18 -o $val -lt 30 ]]
then
    statement
else
    statement
fi
```

- ❑ AND operator

```
val=10
if [ $val -gt 18 ] && [ $val -lt 30 ]
then
    statement
else
    statement
fi
```

Logical Operators

- ❑ Another approach

```
val=10
if [ $val -gt 18 -a $val -lt 30 ]
then
    statement
else
    statement
fi
```

- ❑ Another approach

```
val=10
if [[ $val -gt 18 -a $val -lt 30 ]]
then
    statement
else
    statement
fi
```



Books

- ❑ Unix Shell Programming
 - ❑ Written by Yashavant P. Kanetkar