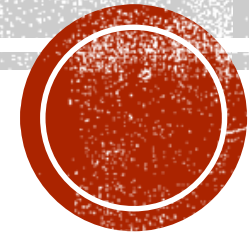# COMPUTER PROGRAMMING CONCEPTS

CS&IT 1101
Instructor: Shakar H. Salih
E-mail: shakar.salih@uhd.edu.iq

LAB 5: JAVA SELECTION STATEMENT

OUTLINES

- **Java if statement.**
- **Nested if statement**
- **Java if….else statement**
- **Nested if….else statement**
- **The if…else…if…else statement**

JAVA IF STATEMENT

- **<u>Syntax:</u>**

```java
if (condition)
{
// code to be execute
}
```

JAVA IF STATEMENT EXAMPLE

▪ Write a java program to compare **two** integer value together if **number1** greater than **number2** print **number1 is greater**, if **number2** greater than **number1** print **number2 is greater**.

NESTED IF STATEMENT

- **<u>Syntax:</u>**

```
if(Boolean_expression 1)
{
    // Executes when the Boolean expression 1 is true
    if(Boolean_expression 2)
{
// Executes when the Boolean expression 2 is true } }
```

NESTED IF STATEMENT EXAMPLE

```java
public static void main(String[] args) {
    int x = 30;
    int y = 10;
    if( x == 30 )
    {
       if( y == 10 )
       {
          System.out.println("X = 30 and Y = 10");
       }
    }
}
```

JAVA IF-ELSE STATEMENT

- <u>**Syntax:**</u>

```
if(condition)
{
    //code if condition is true
}
  else
  {
    //code if condition is false
  }
```

JAVA IF-ELSE STATEMENT EXAMPLE

- Prompt user to enter a value. Check if the number is even then display a message that number is even. If number is odd then display message number is odd.

NESTED IF ELSE STATEMENT

▪ When a if condition is included in the if block of some other if condition then those are called nested ifs.

```
if (...)
    {
      // some code
      if (...)
      { // some code }
        Else
            { // some code }
              Else
                  { // some code }

}
```

NESTED IF ELSE STATEMENT EXAMPLE

▪Write a program in java to find largest of 3 numbers:

THE IF….ELSE….IF ….ELSE STATEMENT

▪ The if-else-if ladder statement executes one condition from multiple statements.

▪ <u>**Syntax:**</u>

```
if(condition1)
{   //code to be executed if condition1 is true }
else
   if(condition2)
   {//code to be executed if condition2 is true}
   else
      if(condition3)
      { //code to be executed if condition3 is true }
...
 else
      {  //code to be executed  if all the conditions are false }
```

IF...ELSE IF...ELSE STATEMENT EXAMPLE

- A bank gives loan in two situations

1. If customer is male and his age is more than 25 and his salary is more than 25000

2. If customer is a female and her age is more than 30 and her income is 20000 Program: Ask user to enter age, gender(M/F) and income. Check whether heshe is eligible to get loan.

THANK YOU........

DO YOU HAVE ANY QUESTIONS ?