**LECTURE-34**

Example

public class If\_Then {  
 public static void main(String[] args) {  
 boolean isAlien= false;  
 if(isAlien == false)  
 System.*out*.println("bollean false0");  
 System.*out*.println("bollean false1");  
 }  
}

output

bollean false1

example2:

public class If\_Then {  
 public static void main(String[] args) {  
 boolean isAlien= false;  
 if(isAlien == true)  
 System.*out*.println("bollean false0");  
 System.*out*.println("bollean false1");  
 }  
}

output:

bollean false1

public class If\_Then {  
 public static void main(String[] args) {  
 boolean isAlien= false;  
 if(isAlien == true) {  
 System.*out*.println("bollean false0");  
 System.*out*.println("bollean false1");  
 }  
 }  
}

output:

no output

it is considered as block of statement to execute only if it Is true

**Lecture:35**

**Logical AND**

public class If\_Then {  
 public static void main(String[] args) {  
 int score = 100;  
 if(score == 100){  
 System.*out*.println("score is 100");  
 }  
 }  
}

output:  
score is 100

similary do for score != 100

score > 100

score< 100

score >=100

score <= 100

**EXample2**

public class If\_Then {  
 public static void main(String[] args) {  
 int score = 100;  
 if(score == 100){  
 System.*out*.println("score is 100");  
 }  
 int seccondscore = 80;  
 if(seccondscore <score && seccondscore<100){  
 System.*out*.println("second score");  
 }  
 }  
}

**output**

**score is 100**

**second score**

**EXAMPLE:36**

**LOGICAL OR OPERATOR**

**2. Logical ‘OR’ Operator (||)**

This operator returns true when one of the two conditions under consideration is satisfied or is true. If even one of the two yields true, the operator results true. To make the result false, both the constraints need to return false

if((seccondscore < 0) || (seccondscore<=90))

**LECTURE-37:**

**Difference between assignment and equals to operator**

**Int a =5**

**Int b=6**

Assignment operator:

Assigns a value to a variable

Ex=if (a =5)

Output: java: incompatible types: int cannot be converted…………..

Equals to :

Equals the value to a avriable

**If(b==6)**

**LECTURE:37**

[**https://www.cs.bilkent.edu.tr/~guvenir/courses/CS101/op\_precedence.html**](https://www.cs.bilkent.edu.tr/~guvenir/courses/CS101/op_precedence.html)

**importance of parenthesis in lin:5**

public class Lecture39 {  
 public static void main(String[] args) {  
 double a = 20.00d;  
 double b = 80.00d;  
 double c = (a+b)\*100.00d;  
 System.*out*.println(c);  
 double rem = c % 40.00d;  
 System.*out*.println(rem);  
 boolean isTrue = (rem == 0) ? true : false;  
 System.*out*.println(isTrue);  
 if(!isTrue){  
 System.*out*.println("got some remainder");  
 }  
 }  
}

**output**

10000.0

0.0

True

For keywords in java

<https://docs.oracle.com/javase/tutorial/java/nutsandbolts/_keywords.html>

**LECTURE-44**

public class IfThen {  
  
 public static void main(String args[]){  
 int score = 10\_000;  
 int levelCompleted = 8;  
 int bonus = 200;  
 boolean gameOver = true;  
 int newScore = score;  
 if(gameOver == true){  
 newScore += (levelCompleted \* bonus);  
 System.*out*.println(newScore);  
 }  
 }  
}

11600

LECTURE:

public class MethodChallenge {

public static void main(String[] args) {

int highScorePosition = calculateHighScorePosition(1500);

displayHighScorePosition("Tim", highScorePosition);

highScorePosition = calculateHighScorePosition(1000);

displayHighScorePosition("Bob", highScorePosition);

highScorePosition = calculateHighScorePosition(500);

displayHighScorePosition("Percy", highScorePosition);

highScorePosition = calculateHighScorePosition(100);

displayHighScorePosition("Gilbert", highScorePosition);

highScorePosition = calculateHighScorePosition(25);

displayHighScorePosition("James", highScorePosition);

}

public static void displayHighScorePosition(String playerName, int highScorePosition) {

System.out.println(playerName + " managed to get into position "

+ highScorePosition + " on the high score list");

}

public static int calculateHighScorePosition(int playerScore) {

int position = 4;

if (playerScore >= 1000) {

position = 1;

} else if (playerScore >= 500) {

position = 2;

} else if (playerScore >= 100) {

position = 3;

}

return position;

}

}

**LECTURE-70**

public class scannerClass {  
 public static void main(String args[]){  
 int currYear = 2022;  
 System.*out*.println(*consoleIput*(currYear));  
 System.*out*.println(*scannerInput*(currYear));  
 }  
 public static String consoleIput(int currYear){  
 String name = System.*console*().readLine("hi whats your name");  
 System.*out*.println("hi"+name+" "+"thanks for joinig the course");  
 return "";  
 }  
 public static String scannerInput(int currYear){  
 return "";  
 }  
}

terminal

java foldername/filename.java

**lecture-71**

public static String scannerInput(int currYear){  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.println("hi whwtas your name");  
 String name = sc.nextLine();  
 System.*out*.println("hi"+sc+" "+"thanks for joinig the course");  
  
 return "";  
}

**lecture-73**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int counter = 1;

double sum = 0;

do {

System.out.println("Enter number #" + counter + ":");

String nextNumber = scanner.nextLine();

try {

// int number = Integer.parseInt(nextNumber);

double number = Double.parseDouble(nextNumber);

counter++;

sum += number;

} catch (NumberFormatException nfe) {

System.out.println("Invalid number");

}

} while (counter <= 5);

System.out.println("The sum of the 5 numbers = " + sum);

}

}

**Lecture-74**

import java.util.Scanner;

public class Program1{

public static void main(String args[]){

Scanner sc = new Scanner(System.in);

int max=0;

int min=0;

int counter = 0;

while(true){

System.out.println("enter any number which are valid real numbers only:");

String name = sc.nextLine();

try{

int number = Integer.parseInt(name);

if(counter == 0 || number<min ){

min = number;

}

if(counter == 0 || number> max){

max= number;

}counter++;

}catch(NumberFormatException e){

break;

}

}

if(counter>0){

System.out.println("the min="+min+" "+"the max ="+max);

}else{

System.out.println("invalid data");

}

}

}