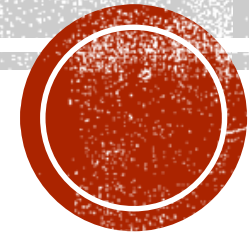




COMPUTER PROGRAMMING CONCEPTS



CS&IT 1101

Instructor: Shakar H. Salih

E-mail: shakar.salih@uhd.edu.iq



LECTURE 10: JAVA SELECTION STATEMENT

OUTLINES

- Switch Structure

SWITCH STRUCTURES

- java's switch structure gives the computer the power to choose from many alternative.

Syntax:

```
switch (expression)
{
    case value1:
        statements1
        break;
    case value2:
        statements2
        break;
    .
    .
    .
    case valuen:
        statementsn
        break;
    default:
        statements
}
```

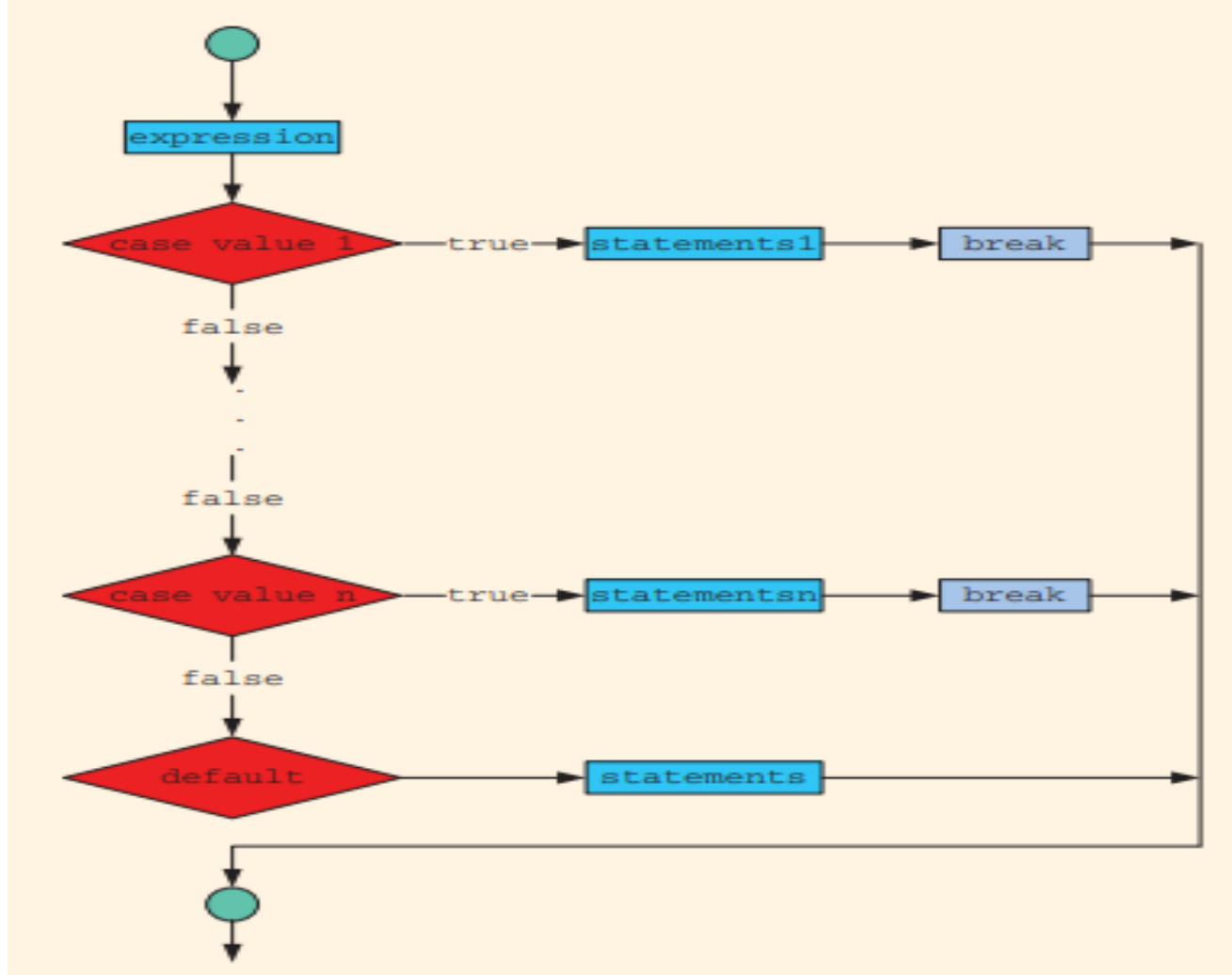
SWITCH STRUCTURES

- In Java, **switch**, **case**, **break**, and **default** are reserved words.
- In a **switch** structure, the expression is evaluated first. The value of the expression is then used to perform the actions specified in the statements that follow the reserved word **case**.
- One or more statements may follow a **case** label.
- The **break** statement may or may not appear after each statements₁, statements₂, ..., statements_n.
- A **switch** structure may or may not have the **default** label.

THE FOLLOWING RULES APPLY TO A SWITCH STATEMENT

1. When the value of the expression is matched against a **case** value, the statements execute until either a **break** statement is found or the end of the **switch** structure is reached.
2. If the value of the expression does not match any of the **case** values, the statements following the **default** label execute. If the **switch** structure has no **default** label, and if the value of the expression does not match any of the **case** values, the entire **switch** statement is skipped.
3. A **break** statement causes an immediate exit from the **switch** structure.

FLOW CHART OF SWITCH STRUCTURE



EXAMPLE

- Write a program which prompt the user to enter a digit between **1** and **2** and display the digit entered by the user. Using switch case.

Switch(number)

{**Case** 1:

System.out.println("the number is 1");

Break;

Case 2:

System.out.println("the number is 2");

Break;

Default:

System.out.println("this number is bound of the range");

}

EXAMPLE

- Write a java program to design a simple calculator using switch case statement to perform some basic arithmetic operation on two integers entered by user.

THANK YOU.....

DO YOU HAVE ANY QUESTIONS ?

