SNS COLLEGE OF TECHNOLOGY

Coimbatore-36.
An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

COURSE NAME :23IT101 C Programming and Data structures

I YEAR/ I SEMESTER

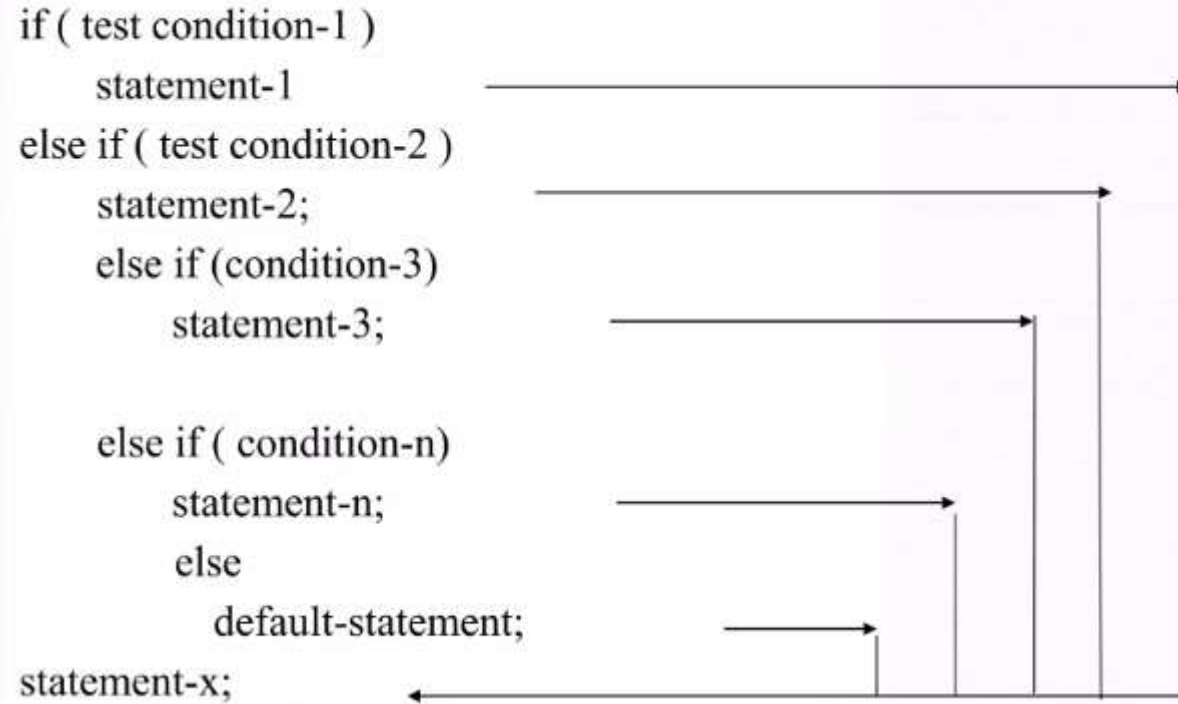## UNIT – II DECISIONS STATEMENTS AND FUNCTIONS
Topic: else if ladder

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Assistant Professor

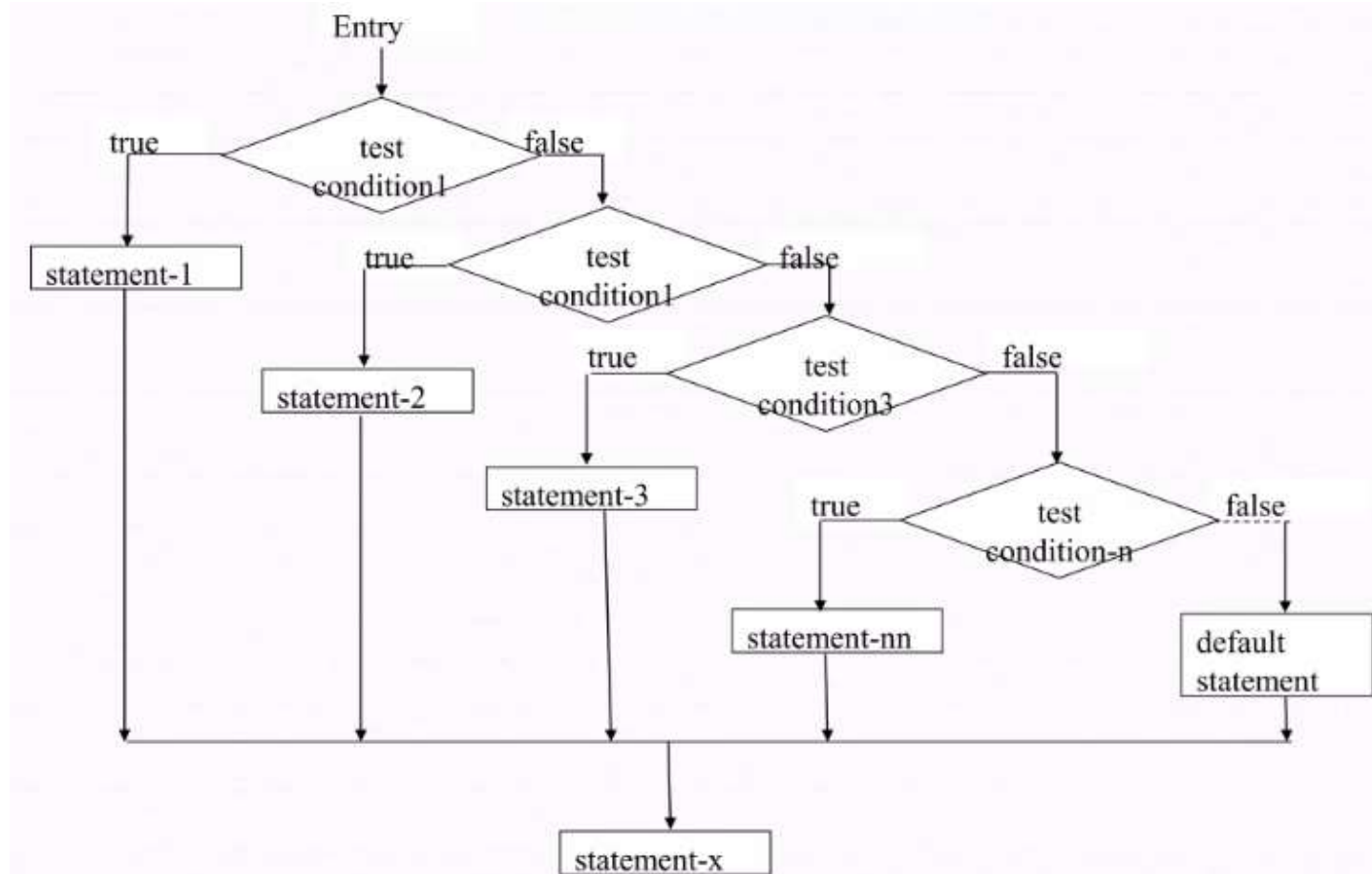Department of Computer Science and Engineering

syntax

```
if ( test condition-1 )
      statement-1
else if ( test condition-2 )
      statement-2;
      else if (condition-3)
            statement-3;

      else if ( condition-n)
            statement-n;
            else
                  default-statement;
statement-x;
```

Else-if ladder flow chart

Example:

```c
// C program to illustrate nested-if statement
#include <stdio.h>

int main() {
    int i = 20;

    if (i == 10)
        printf("i is 10");
    else if (i == 15)
        printf("i is 15");
    else if (i == 20)
        printf("i is 20");
    else
        printf("i is not present");
}
```

Output:

```c
#include <stdio.h>

int main() {

    double n1, n2, n3;

    printf("Enter three numbers: ");
    scanf("%lf %lf %lf", &n1, &n2, &n3);

    // if n1 is greater than both n2 and n3, n1 is the largest
    if (n1 >= n2 && n1 >= n3)
        printf("%.2lf is the largest number.", n1);

    // if n2 is greater than both n1 and n3, n2 is the largest
    else if (n2 >= n1 && n2 >= n3)
        printf("%.2lf is the largest number.", n2);

    // if both above conditions are false, n3 is the largest
    else
        printf("%.2lf is the largest number.", n3);

    return 0;
```