Selection control structure

In a selection control structure, the step to be escented nest is based on an decision taken. It the condition is true, some path is followed If the condition is false, different path is followed.

There are two main selection structures:

- 1. IF-THEN-ELSE statement
- 2. CASE Statement

## 1. The IF-THEN-ELSE Statement

In IF-THEN-ELSE selection structure, if the condition is true, the THEN part is escecuted-Otherwise the ELSE part is escecuted.

IF condition THEN

Process 1

ELSE

Process 2

END IF

ELSE

STOP

PRINT c is greatest

Example: Find maximum of any 3 numbers
READ values of A, B, C
IF A is greater than B THEN
ASSIGN A to MAX
ELSE
ASSIGN B to MAX
IF MAX is greater than C THEN
PRINT MAX is greatest

PI

write a pseudo code to find whether the given number is even.

START READ N

IF N MOD 2 = 0 THEN

DISPLAY "Number is Even"

ELSE

DISPLAY " Number is Odd"

END IP

P2

Find greatest among two numbers

START START

READQIB

IF a is GREATER THAN & THEN DISPLAY "a is greater"

ELSE

DISPLAY "b is greater"

ENDIF

STOP

## The case statement

The rase statement is used when many number of conditions to be checked. In a rase statement, depending on the expression, one of the conditions is true, Based on the value, the corresponding statements are executed. If no match for the repression occurs, then the obefoult option is excueted.

CASE Value 1:

Proces 1

CASE value 2:

Process 2

CASE value n:

Process n

DEFAULT :

others

END CASE

Eg: (simple calculator)

START

READ a, b

READ choice

CASE choice OF

+: PRINT A+B

-: PRINT A-B

\*: PRINT A \* B

1: PRINT A / B

END CASE

Grade 10 - 0

Grade 9-5

Grade 8 - A

Grade 7 - B

arade 6 - c

Grade 5-D

arade 4-E

Grade

Others - F