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20/BCC/BU/R/0003

Conditional statements

Program controls

Give examples code with comments explaining them

Conditional statements

It makes decisions based on certain conditions. These conditions are specified by a set of statements having Boolean expression

If statement

The single If statement is used to execute the code if a condition is true

If (expression)

{

//statement

}

If else statement

It is used to execute the code if condition is true or false

If (expression)

{

else

{

//statements

}

Nested if-else

It is used when a program requires more than one expression

If (expression)

{

If(expression)

{

//statements

}

}

Else

{

//statements

}

If else if ladder

It is used to execute multiple conditions

If(expressions)

{

//statements

}

Else if (expression)

{

//statements)

}

Else if(expression)

{

//statements

}

Else

//statement

}

Switch

It acts as asubstitute for a long if-else if ladder that is used to test a list of condition

Switch(expression)

{

Case value :

//statements

Break;

Case value 2;

//statements

Break;

Break;

Default;

//statements

}

PROGRAM CONTROL

It is how the program makes decisions organizes its activities. It always involves executing particular codes based on the outcome of a prior operation or a user input

Stored program control ; it refers to the storage of instructions in a computer memory to enable it perform a varienty of tasks in sequence of instruction execution

|  |  |
| --- | --- |
| Name | Mnemonic |
| Branch | BUN |
| Jump | JMP |
| Skip | SKP |
| call | CALL |
| Return | RET |
| Compare (by subtraction) | CMP |
| Test(by ANDing) | TST |
|  |  |