Jana Conditions and if Statements Jana supports the usual logical conditions from mathematics. they of se. 1> hess than: -- > 926 er hess than on equal to: > a <= b Tittill 199 3> Greater than: -> a>b 4) Greeater than or equal to -> a ≥ b 57 Equal to: -> a == b 6> Net Equal to: -> a!=b Jana has the following conditional stale Ments. 沙鲜 of else 37 de of 4) switch. The 94 Statement De une if statement to sperify a block of Jana code to be executed condition às ture. if (condition) 5 Ublock of code to be encuted if the condition is touch.

[Note]: - If if is in lemer case letters, it condition. (If m If) and different. IF my generate ergor. if (20>18) 5 Fystem. out-println ("20 is quater"); The else Statement a block Use the else statement to sperify the code to be executed of the condition Dyntax: 9f (condition) \$ 11 block of code to be ensurted of the condition is true block of code to be executed of the condition is false

int time = 20; cent. Eystem. out. printle ("4000 day"); ystem. out printle ("Good evening!"); # certfut :- Good evening. The else -: if Statement a new use the else if statement to spenify andition if the first condition is false. Syntax!if (condition) 1/ block of code to be enecuted of condition 1 is tome. else if ((andition 2) & 1/6/ock of code to be encuted if the condition is false and condition 2 is time. 1/ block of code to be executed if the cardétions às false and carditions à false.

int time = 22;

if (time < 10) {

System.out.puintln (" Good morning"); elseit (time 220) & system. out. peuntle (" Good day")) Jelse & System. out. peint In ("Good evening"); "Good evening". output !-

Short Hand If --- else

There is also a shout-hand if else minch.

Is known as the ternary operator because it consists of there operands.

It can be used to reefface muttiple lines of code with a single line, and is most obtain used to replace simple of else state-

DAILLOX:naudable = (condition) ? enpuession teu: Instead of writing: ûnt dûne = 20; ûf (lûme < 18) \$ System.out.println ("Good day"); Dysters our peintly (" Good enering"); You can simply write int time = 20; Stering result = (time <16) 9 "Good day": "Good evening"; Fystem. out. printle (result); Good evening. output !-

JAVA Smitch Instead of missling many of-clse statements, you can use the smitter statement. The Smitch Statement selects one of many code blocks to be executed. Fyntan: Smich (empression) } case on; L'eode block beegk; Case y: //coge block benear; defautt: licode block. # Working!-1) The smitch expuession is equaluated once. The nature of the enpression is compared with the natures of each case.

```
and a match, the associated block
     code is executed.
47 The beigh and defaut keywords are
 oftonal, and mill be described later
 Eu seus chapter.
# The example below eises . The weekday
  number to calculate the weekdain name:
  int day = 4.;
   switch (day) &
      case 1:
       System. out. pointle ('Manday");
       bleegk)
     Couse 2:
       System. out. println (" fusday");
       steegk;
     case 3:
       Systemiant fruith ("nednesday");
       bokeak;
    Couse 4:
      5ystem. out. printly ("Thursday");
       becale;
              " Thursday" (day 4)
    l'output
```

beneak Keyword

when Jana seegeties a beegt keywoord, of buences out of the smith block.

This will stop the execution of more code and case testing inside the block.

done, its worse found, and the job is done, its worse four 9 break. There is

Deenye en some a let of caentier time beenve en some block.

NOTE! The default keyworld!

The default Keywoord sperified some code to deur if there is no case match.

System. out. perintln (" thoppy peroquamming")

Jana hunde Loop con eneutre a block of code as Loops long as a specified condition is

related. Loops are handy become they save time, reduce errors, and they make code more readable.

Jana helite Loop:

The will loop 100ps through a block of rode as long as a spuitied embition is twe:

Syntan; menile (condition)

hoops:-

11 code block to be encuted

2 ut 1 = 0; menule (125)

orystens. out. pouintle (?);

[NOTE! - Do not forget to invelse the condition, neverable used in the condition, otherwise the loop will nevel end!

The DO while Loop is a variount of the while loop. This loop will execute the while look once, before checking of the cardition is true, then it will repeat and loop as larg as the cardition is true.

The example below uses a do/while toop. The doop will always be executed at least once, when is false, because over if the code block is created to foese the condition is tested:

er.

P=0; do s System. out. peintln (i); nuite (i25);

Mote: Do not forget to incerease the reaction narioable used in the condition, ether nuis end.

Java for Loops

ruhen you know enaitly how many times you mant to loop knyough en hour of a code, me the fore hop austead of a white loop.

Syntaa:

for (sfalment); statement 2; statement 3) Moode block to be enecuted

Statement 1 is executed (one line) before the execution of the code block. defines une condition for executing Statement 2 itu code bjock. Statement3 as executed convey time) ofter the code block has been executed. fou l'int ?=0; ,°25; °++)

System out-perintle (°); fort l'int, 9=0', 92=10', = 1+2) System. out. perintly (;);

for each loop There is also a "fore-earn" foot, where is used encurs to loop the ough dements in our array. Jose (type raniable Name: array Name)

{ // code block to be executed
} fortoming enample outputs all elements the ears array, using a "for-equ" Stewing [] cars = &"volvo", "kmw", "kood" 3; for (Stewing ": cars) Jup: System-out. printle (°); [NOTE]:-ne mus legen une about Deverys
freether.