Conditional Statements The conditional statements is used in any programming language to do any decision making tasks. There are 5 conditional statements statements which Can be used in boost programming 1. of Statement ii. if-else statement if-ely-else-fi statement (Else if ladder) iv. if then - else - if - then-fi - fi (Nested if) v. Switch statement. This block will process if specified cond is true i. if statement :- if specified londition is not true in If part then else part will be execute. if [expression] Statement 1 if-else statement: - if specified condition is not true true in if part then else part will be execute Syntain if [expression] Statement 1 Statement 2 fi

iii. Else if ladder: To use multiple conditions in one if else block, then elif keyboard is used in shell . If expression I is true then it executes statement 1 and 2, and this process continues If none of the condition is true then it processes else part. osyntain if [expression1] Statement 1 Statement 2 else [expression 2] Statement 3 Statement 5 Nested if - Nested if-else block can be used when, one condition is satisfies then it again cheeks another condition. In the syntax, if expression 1 is false then it processes else part, and again expression 2 will be check.

Syntar :-

if [expression] then esta tement 1 Statement 2 else if [expression 2] Statement 3 fifi V. Switch statements: case statement works as a switch statement if specified value match with a the pattern then it will execute a block of that particular pattern. When a match is found all of the associated Statements until the double semi color (;;) is executed. case will be terminated when the last command is executed. If there is no match, the exit status of the case is Zero. case in Pattern 1) Statement 1; Pattern n) statement n; esac

Conditional operators equal equivalent - eg less than - gt greater teran equals to not equals to check existence of a directory check existence of file check existence of file and read permission check existence of file & write permission check existence of file & execute permission - × Looping statement in Linux Shell Scripting There are 3 total looping stakments which can be used is bash programming. 1- while stakement 2 for statement 3. until statement 1. while statement: - Here command is evaluated and based on the result loop will executed, if command raise to false then loop will be terminated. Syntonp While [condition] Statement 1

5 takment 2

if for loop :- The for loop operate on lists of items

It repeats a set of commands for every item in a list. Syntax:for [voriable_name] in ... Statement 1 5 tatemen 2 Statementn need to execute a set of commands until a Condition is true. until [condition] Statement / Statement 2 done # Loop control statements i. break statement II. continue statement i break statement: - It is used to terminate The execution of the entire loop, after completing the execution of all the lines of code up to the break statement. It then steps down the code following

the end of the loop. Syntax break (to come out of a loop) to come out of nested loop & break or (n specifies the nth enclosing loop to exit from) 11. Continue statement It is similar to the break statement, except that it causes the current iteration of the loop to exit, rather than the entire loop. The statement is useful when an error has occurred but you want to try to execute the MENT iteration of the loop.

Syntax in continue

ii. Continue n

(n specifies the nth enclosing loop to continue from)

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Example 8
i. Implementing while loop (printing from 0 to 9)
Q = 0
while [\$a -lt 10] do
echo \$a
$\alpha = 1 \exp \gamma \beta \alpha + 1'$
done
in the second of
ii. Implementing for loop with break statement
for a in 12345678910
dp
if [\$a = = 5]
then
continue
fi'
echo "Iteration no fa"
done.
iii. Implementing until loop (point 0 to 10)
9=0
until [\$a - gt 10]
do
echo \$9
a = 1expr \$a + 1
done
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