

Control structures

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# ----- CONTROL STRUCTURE -----  
  
# ----- CONDITIONALS -----  
  
# IF ELIF ELSE  
# predicate is surrounded by [] square brackets  
  
peepee = 10  
if [ $peepee -eq 10 ]; then  
    echo "peepee is equal to 10!"  
elif [ $peepee -ne 10 ]; then  
    echo "peepee is not equal to 10!"  
else  
    echo "logically speaking this should not be possible"  
fi  
  
# CASE IN *  
# case in => declares a case block similar to switch case statements in other languages  
# ) => appends every case statement's specified value  
# ;; => append every case statement's logic, acting as the equivalent of a break statement to ensure logic breaks out after a given case is hit  
# * => specifies the default case should all other conditions fall through  
  
car = 10  
case $car in  
    "BMW" )  
        echo "your kar is a BMW";;  
    "Toyota" )  
        echo "aigh bet";;  
    "Honda" )  
        echo "your car is a Hoonda";;  
    "Toyota" )  
        echo "car ni na";;  
    * )  
        echo "this is the default case";;  
esac  
  
# ----- LOOPS -----  
# break => breaks out of the current loop  
# condition => skips to the next iteration of the given loop  
  
# WHILE DO LOOPS  
# loop condition specified within [] square brackets  
  
number = 1  
while [ $number -lt 10 ]  
do  
    echo "$number"  
    number=$((number+1))  
done  
  
# UNTIL LOOPS  
# loop condition specified within [] square brackets  
# equivalent of a while false loop in Bash  
  
number = 1  
until [ $number -ge 10 ]  
do  
    echo $number  
    number=$((number+1))  
done  
  
# FOR LOOPS  
# allows for rudimentary for loops with an explicit start, step and end  
  
for (( i=0; i<5; i++ ))  
do  
    echo $i  
done  
  
# FOR IN LOOPS  
# allows for iteration over a specified range  
# .. => allows for creation of implicit ranges with the syntax => {START..END..STEP}  
  
for i in 1 2 3 4 5  
do  
    echo $i  
done # prints 1\n2\n3\n4\n5\n\n  
for i in {0..20..2}  
do  
    echo $i  
done # prints 0\n2\n4\n6\n8\n10\n12\n14\n16\n18\n20\n\n
```

Data structures