Shell Scripting

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Shell Variables

Variable Initialization/assignment
 Variable=value
 count=1

- No declaration needed
- Displaying variable value echo \$count

Single Quote Vs Double Quote

- Single quote
 - Text will be take as it ease
- Double quotes
 - Variable substitution will take place
- Example

```
var=abc
echo '$var' (prints $var)
echo "$var" (prints abc)
```

Command Line arguments

echo arg-
$$1 = $1$$
, arg- $2 = 2

- Prints first two command line argumentsecho \$*
 - Prints all command line arguments

Operators

Comparing strings

Integer Operators

```
-eq, -ge, -gt, -le, -lt, -ne
```

Selection - If

```
if condition
then
command
command
...
fi
```

Selection – If-else

```
if condition
then
      command
      command
else
      command
      command
      ...
```

Selection – else-if ladder

```
if condition<sub>1</sub>
then
             command
             command
elif condition<sub>2</sub>
then
             command
             command
elif condition<sub>n</sub>
then
             command
             command
Else
             command
             command
             •••
fi
```

Selection - case

```
case value in
pat1) command
       command
       command;;
pat2)
*)
       command
       command
       command;;
esac
```

Repetition - for

```
for var in word1 word2 ... wordn
do
      command
      command
done
Example
  for i in 123
  do
      echo $i
  done
```

Repetition - while

```
While condition do

command command
...
done
```

Repetition - until

```
until condition
do
command
command
...
done
```

Write a program called isyes that returns an exit status of 9 if its argument is "yes" and 1 otherwise. For purposes of this exercise, consider y, yes, Yes, YES and Y all to be valid "yes" arguments. Write the program using an if command and then rewrite it using a case command.

 List all files whose size is larger than a given size in a given directory.

 Check the disk usage of a user and print a message "WARNING: Disk usage exceeding quota value" where quota is the value given as a parameter and the user name is also a parameter to the script.

 Write a script that replaces all spaces in the file name with _.

A script to walk through the <u>files in the</u>
 <u>directory</u> and compute the average of the
 values in the files. The output consists of one
 line per file with each line having the name of
 the file and average of the 2nd column.