Syntax/Command/Variable	Desc	Example
\$0	The name of the Bash script.	echo \$0
\$1 - \$9	The first 9 arguments to the Bash	echo \$1 \$2 \$3
	script. (As mentioned above.)	
\$#	How many arguments were	echo \$#
4.0	passed to the Bash script.	
\$@	All the arguments supplied to the	echo \$@
ć2	Bash script. The exit status of the most	acha ¢3
\$?	recently run process.	echo \$?
\$\$	The process ID of the current	echo \$\$
<b>*</b>	script.	Cono yy
\$USER	The username of the user running	echo \$USER
·	the script.	·
\$HOSTNAME	The hostname of the machine the	echo \$HOSTNAME
	script is running on.	
\$SECONDS	The number of seconds since the	echo \$SECONDS
	script was started.	
\$RANDOM	Returns a different random	echo \$RANDOM
4.0.50	number each time is it referred to.	1 41115110
\$LINENO	Returns the current line number in	echo \$LINENO
x=value	the Bash script. Set <b>x</b> to <b>value</b>	x=123
x-value	Set X to value	x=hello
		x='Hello World'
		x="Hello World"
\$x	Read the value of <b>x</b>	echo \$x
x=\$( command )	Set <b>x</b> to output of a command	x=\$( echo 123 )
export x	Export <b>x</b> to all child process	export x
read x	Read input and write it in <b>x</b>	read x
		read -p "User: " x
	To do discolor discolor	read -sp "Pass: " x
let <arithmetic expression=""></arithmetic>	To do simple arithmetic	let a=5+4 let "a = 5 + 4"
		let a++
expr item1 operator item2	To do simple arithmetic (print the	expr 11 % 2
The results of the results	result)	a=\$( expr 10 - 3 )
\$(( expression ))	to do basic arithmetic	a=\$((4+5))
		b=\$(( a + 3 ))
		\$(( b += 3 ))
\${#x}	find out the length of a variable (x)	a='Hello World'
	16	echo \${#a}
if [ <some test=""> ]</some>	If statement in Bash	if [ \$1 -gt 100 ]
then		then
<commands></commands>		echo Hey that\'s a large number.
		pwd fi
		II .

test/[ expr ]	To test or evaluate expression	! EXPRESSION -n STRING -z STRING STRING1 = STRING2 STRING1!= STRING2 INTEGER1 -eq INTEGER2 INTEGER1 -gt INTEGER2 INTEGER1 -lt INTEGER2 -d FILE -e FILE -r FILE -s FILE -w FILE -x FILE -x FILE
<pre>if [ <some test=""> ] then   <commands> elif [ <some test=""> ] then   <different commands=""> else   <other commands=""> fi</other></different></some></commands></some></pre>	IF/Else IF/Else in Bash	if [\$1 -ge 18] then echo You may go to the party. elif [\$2 == 'yes'] then echo You may go to the party but be back before midnight. else echo You may not go to the party. fi
and - && or -	And / Or Boolean operator in Bash	if [ -r \$1 ] && [ -s \$1 ] then echo This file is useful. fi
case <variable> in   <pattern 1="">)   <commands> ;;   <pattern 2="">)   <other commands=""> ;;   esac</other></pattern></commands></pattern></variable>	Case / Switch statement in Bash	case \$1 in start) echo starting ;; stop) echo stoping ;; restart) echo restarting ;; *) echo don\'t know ;; esac
while [ <some test=""> ] do <commands> done</commands></some>	While loop in Bash	counter=1 while [\$counter -le 10] do echo \$counter ((counter++)) done

until [ <some test=""> ] do <commands> done</commands></some>	Until loop in Bash	counter=1 until [\$counter -gt 10] do echo \$counter ((counter++)) done
for var in <list> do <commands> done</commands></list>	For loop in Bash	names='Stan Kyle Cartman' for name in \$names do echo \$name done
{15}	Ranges in Bash	for value in {15} do echo \$value done  for value in {1002} do echo \$value done
select var in <list> do <commands> done</commands></list>	Select from options/menu in Bash	names='Kyle Cartman Stan Quit' PS3='Select character: ' select name in \$names do if [ \$name == 'Quit' ] then break fi echo Hello \$name done
function_name () { <commands> }</commands>	Define a function in Bash	<pre>print_something () {   echo Hello I am a function } print_something  print_something2 () {   echo Hello \$1 } print_something2 Mars</pre>
local x=value	Local variable in Bash	<pre>print_something () { local x=123 echo \$x } print_something</pre>
<pre>name[index]=value declare -a name=('value1 'value2');</pre>	Define an array	Unix[0]='Debian' declare -a Unix=('Debian' 'Red hat' 'Red hat' 'Suse' 'Fedora');

\${Array[@]}	Print all array	declare -a Unix=('Debian' 'Red hat' 'Red hat' 'Suse' 'Fedora'); echo \${Unix[@]}
#array[@]	Get array length	declare -a Unix=('Debian' 'Red hat' 'Suse' 'Fedora'); echo \${#Unix[@]}
\${#array[i]}	Length of the nth Element in an Array	declare -a Unix=('Debian' 'Red hat' 'Suse' 'Fedora'); echo \${#Unix[1]}
\${array[@]:X:Y}	Extraction by offset and length for an array	Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora' 'UTS' 'OpenLinux'); echo \${Unix[@]:3:2}
\${array[I]:X:Y}	Extraction with offset and length, for a particular element of an array	Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora' 'UTS' 'OpenLinux'); echo \${Unix[2]:0:4}
\${array[@]/find/replace}	Search and Replace in an array elements	Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora' 'UTS' 'OpenLinux'); echo \${Unix[@]/Ubuntu/SCO Unix}
unset array[i]	Remove an Element from an Array	Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora' 'UTS' 'OpenLinux'); echo \${Unix[3]}
newarray=("\${array[@]}")	Copying an Array	Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora' 'UTS' 'OpenLinux'); Linux=("\${Unix[@]}") echo \${Linux[@]}
Array1=('value1') Array2=('value2')	Concatenation of two Bash Arrays	Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora' 'UTS' 'OpenLinux'); Shell=('bash' 'csh' 'jsh' 'rsh' 'ksh' 'rc' 'tcsh');  UnixShell=("\${Unix[@]}" "\${Shell[@]}") echo \${UnixShell[@]} echo \${#UnixShell[@]}