

William Kelley
Assignment 04 - ITE315/Scripting

Part 01

```
# Convert String to ASCII
# Source: https://social.technet.microsoft.com/wiki/contents/articles/25071.powershell-tip-converting-string-to-character-array.aspx into ASCII
```

```
Write-Host "$args"
```

```
$args.ToCharArray() | % {[int][char]$_}
```

```
hello world
104
101
108
108
111
32
119
111
114
108
```

Part 02

```
#!/bin/bash
# Convert string to ascii characters
# Sources: Lots of stack overflow for help
# Had trouble converting to character array and then converting each
# Ran into an issue where it prints the EOL delimiter
```

```
STRING="$1"
```

```
for i in $(seq 0 ${#STRING})
do array[$i]=${STRING:$i:1}
done
```

```
for each in "${array[@]}"
do
    printf "%d\n" \"'$each'\"
done
```

```
$ ./assn04.part02.sh "hello world"
104
101
108
108
111
32
119
111
114
108
100
```

Part 03 - Bash

```
#!/bin/bash
# Decifer week number from entry or print out current week number
# Source: https://stackoverflow.com/questions/3237882/get-week-of-year-from-day-of-year

if [ "$1" != "" ]; then
    /bin/date -d "$1" +%V
else
    /bin/date +%V
fi

$ ./asn04.part03.sh
23
$ ./asn04.part03.sh 01/08/2019
02
```

Part 03 - PowerShell

```
#!/bin/bash
# Decifer week number from entry or print out current week number
# Source: https://stackoverflow.com/questions/3237882/get-week-of-year-from-day-of-year

if [ "$1" != "" ]; then
    /bin/date -d "$1" +%V
else
    /bin/date +%V
fi
Williams-MacBook-Pro:Assn04 williamkelley$ cat asn04.part03.ps1
#Display week number of specific date or if none entered display current week

if ( $args -ne "" ) {
    $day = [DateTime]"$args"
    [decimal]$day_number = $day.DayOfYear
    $week_number = [Math]::Round([Math]::Ceiling($day_number/7))
    Write-Host $week_number
}
else {
    Get-Date -UFormat %V
}

PS > .\asn04.part03.ps1
23

PS > .\asn04.part03.ps1 01/01/2019
1
```

Part 04

```
#!/bin/bash
# Convert all files of one file type to another

if [ "$2" == "" ]; then
    echo "Need to submit two file types"
else
    files=$(ls -d *$1)
    for each in "${files[@]}"
    do
        filename=$each
        file_prefix="${filename%.*}"
        echo "Converting file $file_prefix$1 to $file_prefix$2"
        mv "$file_prefix$1" "$file_prefix$2"
    done
fi

$ ./assn04.part04.sh .doc .docx
Converting file 1.doc to 1.docx
Converting file 2.doc to 2.docx
Converting file 3.doc to 3.docx

$ ls *.docx
1.docx 2.docx 3.docx

$ ls *.doc
ls: cannot access '*.doc': No such file or directory
```