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Assignment 03

These are some simple programs that I wrote in Bash and PowerShell.

```
1. Checking file permissions
    Script:
   #!/bin/bash
    if [ $# -eq 0 ]
   then
            echo "Script fileName"
            exit 1
    fi
    if [ -r $1 ]
    then
            echo "File has read permission"
    else
            echo "File does not have read permission"
            exit 1
   fi
   if [ -w $1]
   then
            echo "File has write permission"
    else
            echo "File does not have write permission"
    fi
    if [ -x $1 ]
   then
            echo "File has execute permission"
    else
            echo "File does not have execute permission"
    fi
```

largesize=1000000

## Output:

```
anna@anna-VirtualBox:~$ ./DubeAssign03_1.sh phone.txt
File has read permission
File has write permission
File does not have execute permission
anna@anna-VirtualBox:~$
```

2. Getting the decimal and hex value for every character in a string

```
Script:
param ([string]$arg)
if($arg -eq ""){
    "script parameter; there needs to be a string as the parameter"
}
else{
    foreach($char in [char[]]$arg)
    {
        'Character {0,-3} Decimal {1,-5} Hex {1,-4:x}' -f $char, [int]$char
    }
}
```

```
PS C:\Dube\classes\summer2022> .\DubeAssign03_2.ps1 Anna
Character A
              Decimal 65
                             Hex 41
Character n
               Decimal 110
                             Hex
                                  6E
              Decimal 110
Decimal 97
Character n
                             Hex
                                  6E
Character a
                             Hex
                                   61
PS C:\Dube\classes\summer2022> |
```

3. Script:

#!/bin/bash

## Output:

```
anna@anna-VirtualBox:~$ ./DubeAssign03_3.sh Anna
Character A Decimal 65
Character n Decimal 110
Character n Decimal 110
Character a Decimal 97
anna@anna-VirtualBox:~$
```

4. Getting the week number for a date entered

```
PowerShell Script:
param ([string]$argDate)
if($argDate -eq ""){
    'week number: '
    function Get-WeekNumber([datetime] $DateTime = (Get-Date)) {
        $cultureInfo = [System.Globalization.CultureInfo]::CurrentCulture
$cultureInfo.Calendar.GetWeekOfYear($DateTime,$cultureInfo.DateTimeFormat.Calen
darweekRule,$cultureInfo.DateTimeFormat.FirstDayOfweek)
    Get-WeekNumber # -> 7, for instance
else{
    [ref]$parsedDate = Get-Date
    if ([DateTime]::TryParseExact(
            $argDate,
"MM/dd/yyyy"
            [System.Globalization.CultureInfo]::InvariantCulture,
             [System.Globalization.DateTimeStyles]::None,
            $parseddate)) {
        'Week number: '
        function Get-WeekNumber([datetime]$DateTime = ($argDate)) {
            $cultureInfo = [System.Globalization.CultureInfo]::CurrentCulture
$cultureInfo.Calendar.GetWeekOfYear($DateTime,$cultureInfo.DateTimeFormat.Calen
darWeekRule, $cultureInfo.DateTimeFormat.FirstDayOfWeek)
        Get-WeekNumber # -> 7, for instance
    } else {
        "Invalid date. The date format is MM/dd/yyyy"
}
```

PowerShell Script output:

```
PS C:\Dube\classes\summer2022> ./DubeAssign03_4.ps1 03/01/2022
Week number:
10
PS C:\Dube\classes\summer2022> ./DubeAssign03_4.ps1 03/01/2022 | Out-File -FilePath .\tempText.txt
PS C:\Dube\classes\summer2022> |
```

Bash Script:

#!/bin/bash

```
weekNum=0;
if [ -z "$1" ];
then
       weekNum='date +%U'
else
       testD=$(date +%d%m%Y -d $1)
       if [ $1 == $testD ];
       then
              enteredDate=$(date -d "$1" +%U)
              weekNum=$enteredDate
       else
              echo "invalid date. format: mm/dd/yyyy"
              exit 1
       fi
fi
echo "The week number is: " $weekNum
Bash Script Output:
 anna@anna-VirtualBox:~$ ./DubeAssign03_4.2.sh 01/04/2022
 The week number is: 01
 anna@anna-VirtualBox:~$ _/DubeAssign03_4.2.sh 01/04/2022 >> tempOut.txt
 anna@anna-VirtualBox:~$
```

## Sources:

https://community.idera.com/database-tools/powershell/powertips/b/tips/posts/finding-ascii-codes#:~:text=Here%20is%20an%20easy%20way%20to%20find%20the,command%20in%20%EE%80%800PowerShell%EE%80%81%3A%20This%20opens%20the%20character%20

https://stackoverflow.com/questions/60194973/week-number-with-get-date

https://linuxhint.com/date-command-

 $\frac{bash/\#: \sim : text = To\%20 get\%20 the\%20 week\%20 number\%2C\%20 type\%20 the\%20 following\%20 program\%20 using\%20 any\%20 editor\%3A}{the\%20 following\%20 program\%20 using\%20 any\%20 editor\%3A}$