Name : Sagar Ladla

Enrollment No. : 000FSMSCS1920020

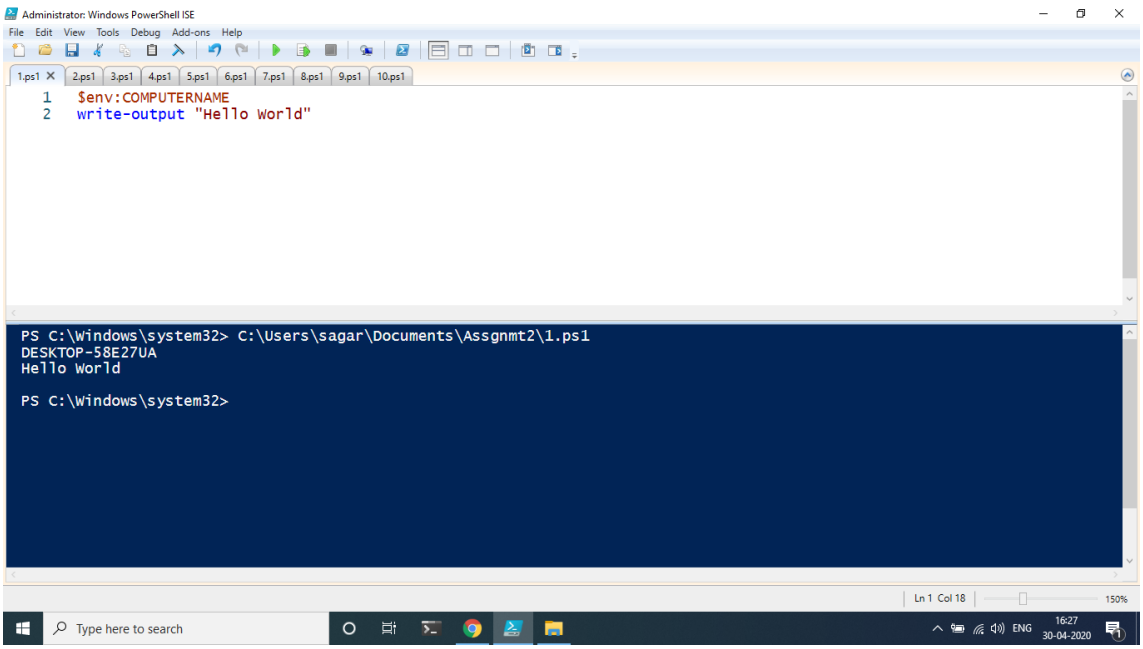
Course : M. Sc. Cyber Security

Question 1 : Write a Powershell Script to print "HelloWorld"

Program :

```
write-output "Hello World"
```

Screenshot :

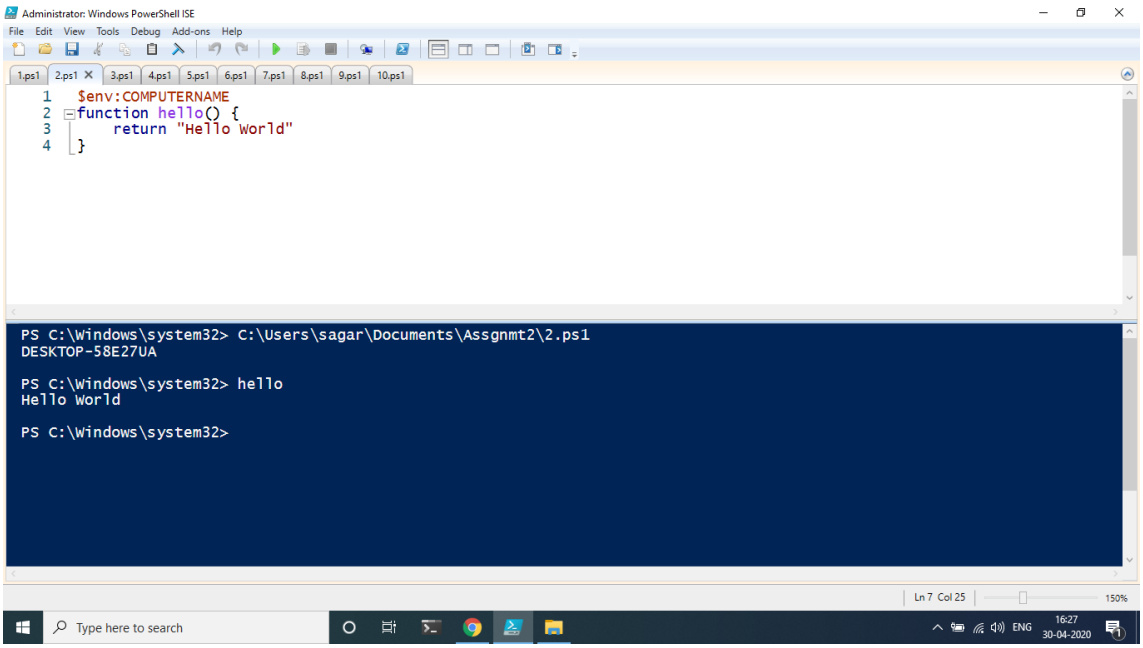


Question 2 : Write a Powershell Script to print "HelloWorld" using a simple function.

Program :

```
function hello() {
    return "Hello World"
}
```

Screenshot :

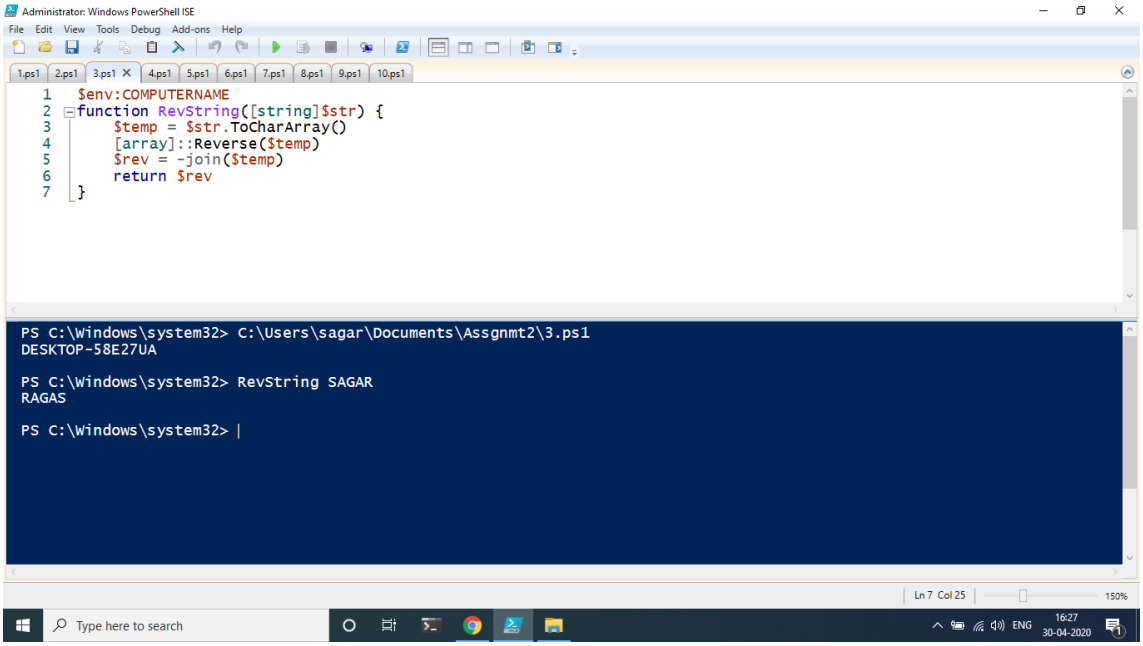


Question 3 : Write a Powershell Script to take a string input from the user and display the reverse of that string in output.

Program :

```
function RevString([string]$str) {
    $temp = $str.ToCharArray()
    [array]::Reverse($temp)
    $rev = -join($temp)
    return $rev
}
```

Screenshot :

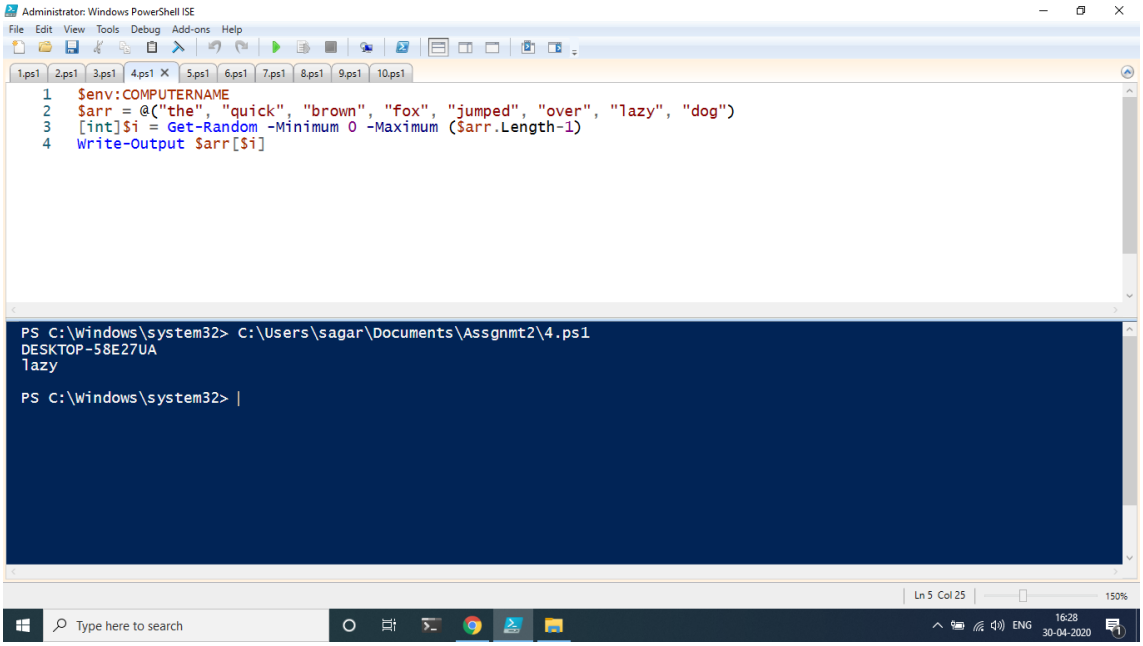


Question 4 : Write a Powershell Script to pick a random name from the list. (Hint : Use an Array of names)

Program :

```
$arr = @("the", "quick", "brown", "fox", "jumped", "over", "lazy", "dog")
[int]$i = Get-Random -Minimum 0 -Maximum ($arr.Length-1)
Write-Output $arr[$i]
```

Screenshot :

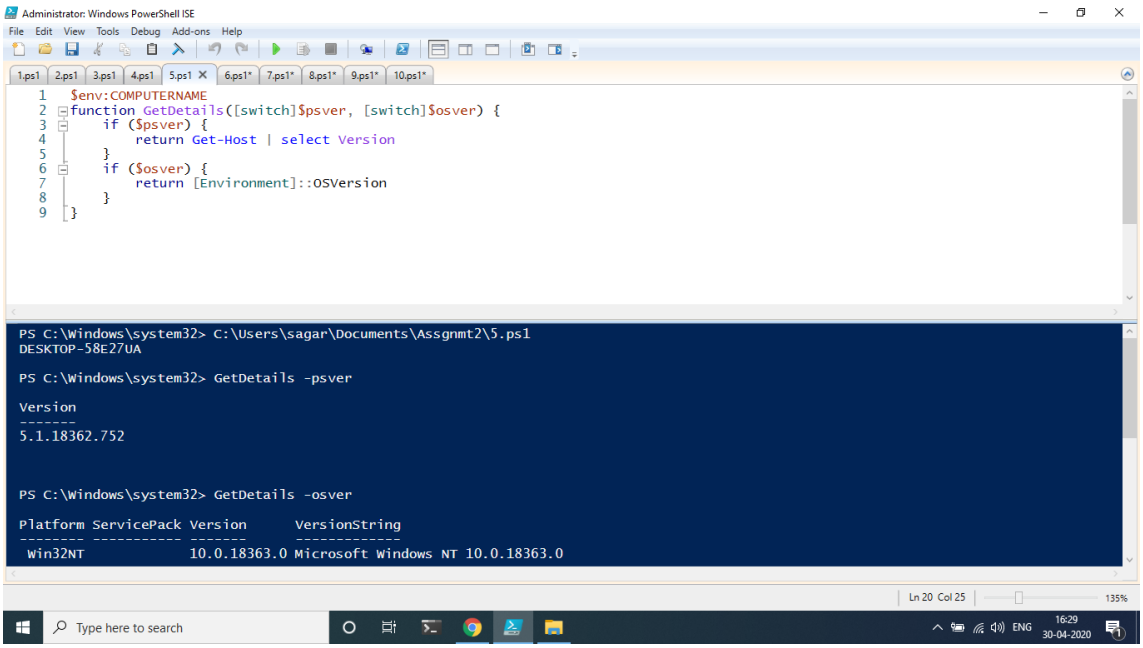


Question 5 : Write a Powershell Script to get the version of Powershell, details of host operating system, details of host computer by using function and passing parameters as a handle. (Ex: Functionname computerinfo -> It should show me the computer information) (Hint : Conditional Operators)

Program :

```
function GetDetails([switch]$psver, [switch]$osver) {
    if ($psver) {
        return Get-Host | select Version
    }
    if ($osver) {
        return [Environment]::OSVersion
    }
}
```

Screenshot :



Question 6 : Determine the types of following CMDLETS.

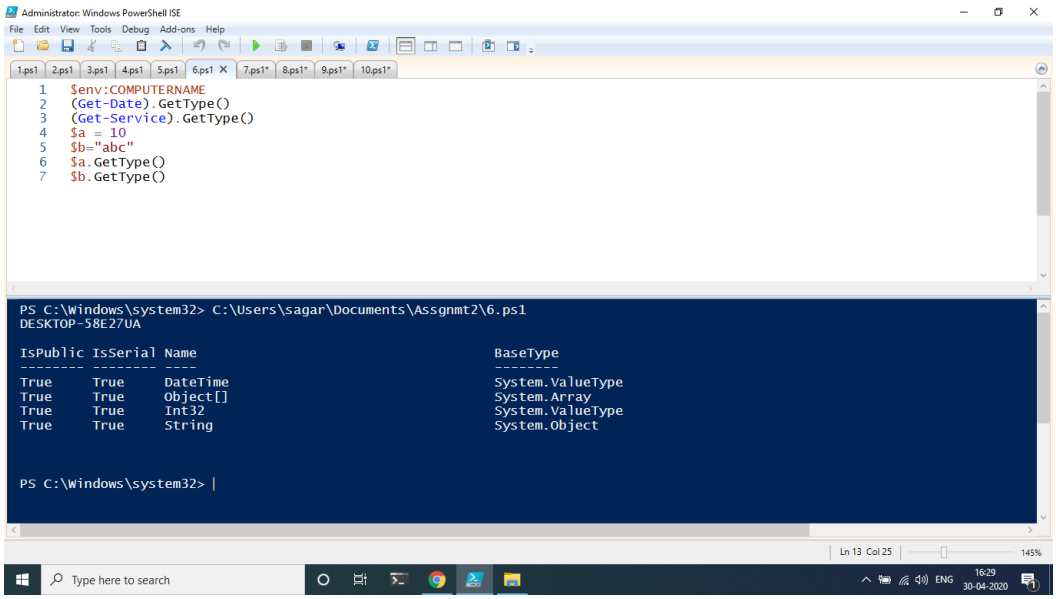
1. Get-Date
2. Get-Service
3. $a = 10
4. $b="abc"

- (Hint : Use GetType())

Program :

```
(Get-Date).GetType()
(Get-Service).GetType()
$a = 10
$b="abc"
$a.GetType()
$b.GetType()
```

Screenshot :

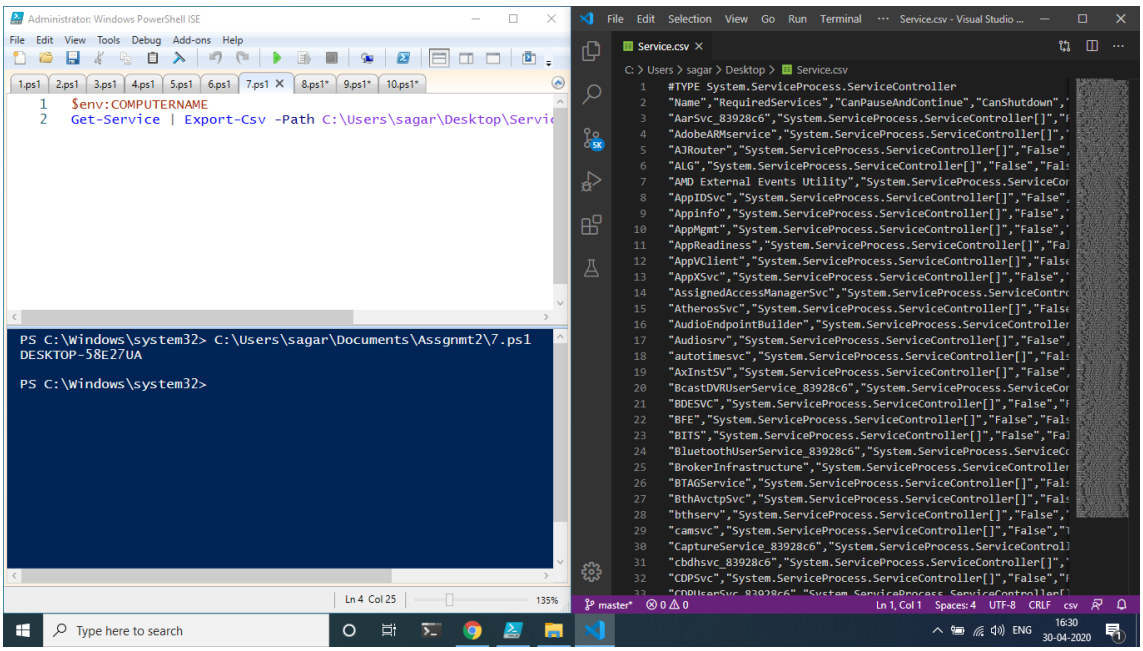


Question 7 : Write a Powershell Script to export the list of services as a CSV file. (Hint : Export Option)

Program :

```
Get-Service | Export-Csv -Path C:\Users\sagar\Desktop\Service.csv
```

Screenshot :

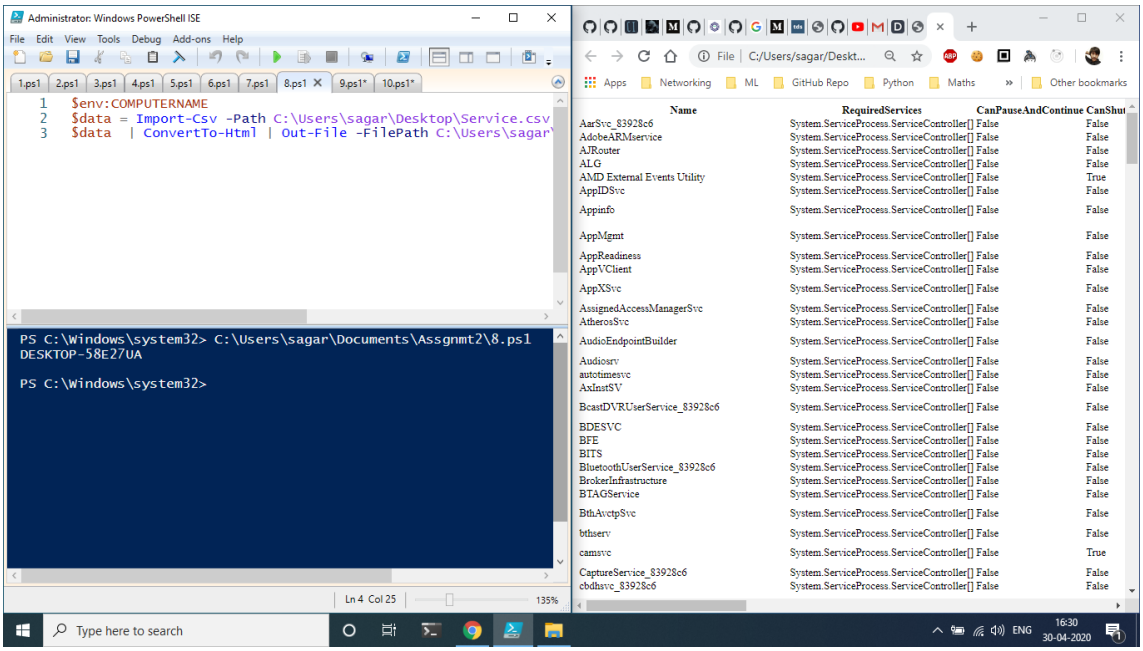


Question 8 : Import the file Exported in the above Program and convert that file to HTML file. Open that exported file in the browser to reverify.

Program :

```
$data = Import-Csv -Path C:\Users\sagar\Desktop\Service.csv
$data  | ConvertTo-Html | Out-File -FilePath C:\Users\sagar\Desktop\Service.html
```

Screenshot :

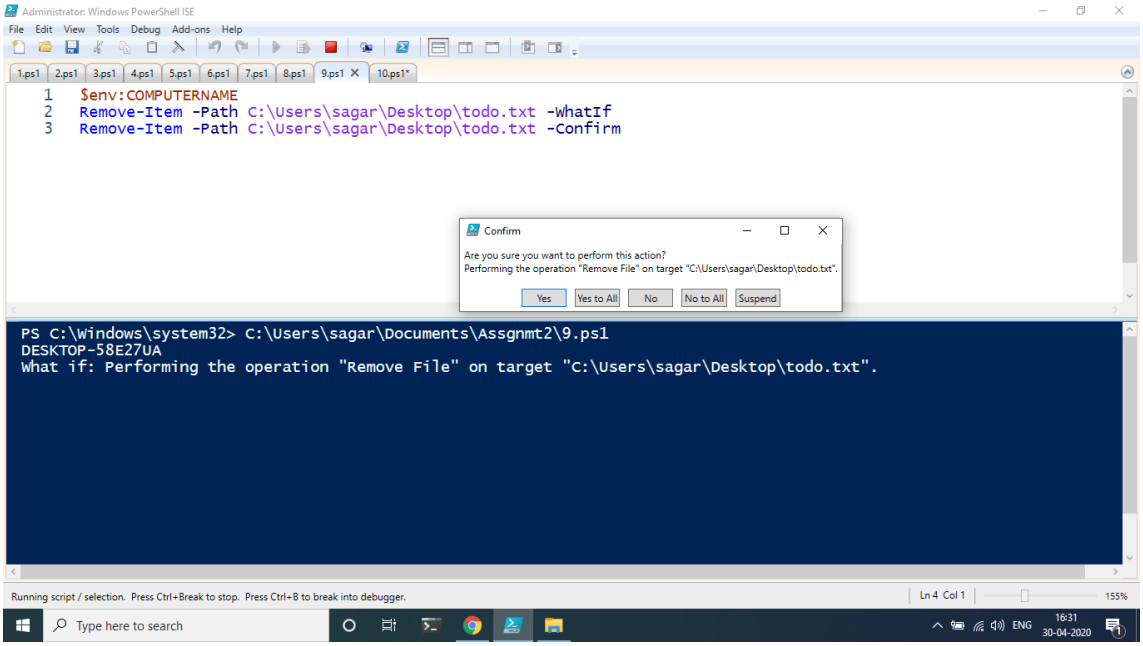


Question 9 : Write a Powershell Script to show the use of -whatif and -confirm command.

Program :

```
Remove-Item -Path C:\Users\sagar\Desktop\todo.txt -WhatIf
Remove-Item -Path C:\Users\sagar\Desktop\todo.txt -Confirm
```

Screenshot :

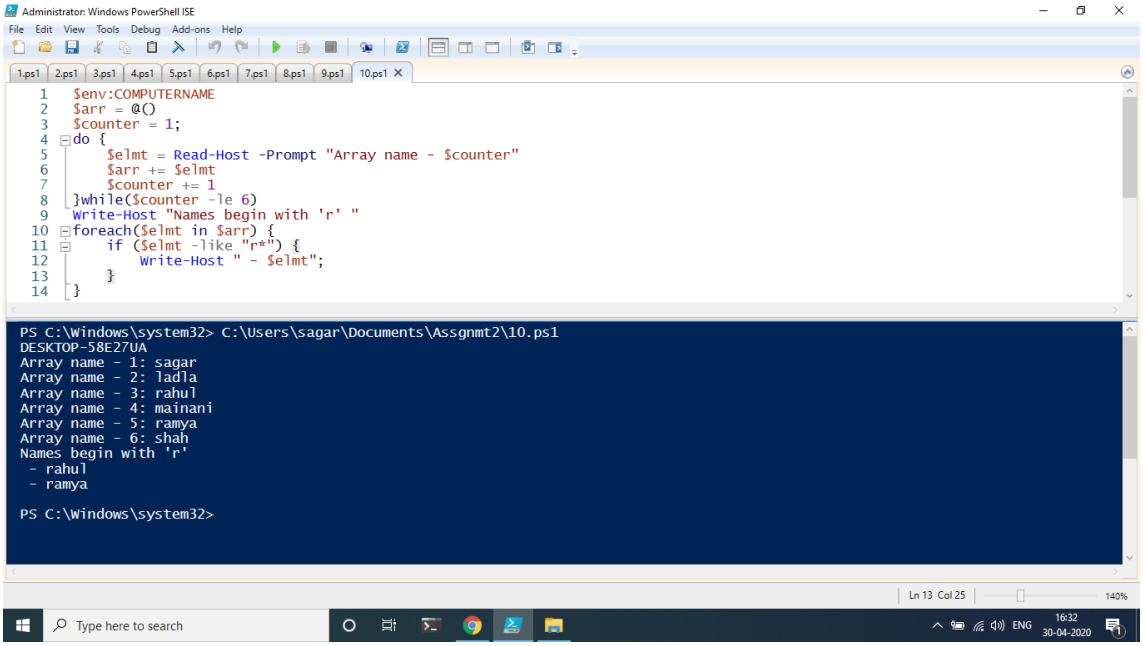


Question 10 : Write a Powershell Script to take an array of names and print all those names starting with R. (Hint : Wildcard or Regex and Conditions)

Program :

```
$arr = @()
$counter = 1;
do {
    $elmt = Read-Host -Prompt "Array name - $counter"
    $arr += $elmt
    $counter += 1
}while($counter -le 6)
Write-Host "Names begin with 'r' "
foreach($elmt in $arr) {
    if ($elmt -like "r*") {
        Write-Host " - $elmt";
    }
}
```

Screenshot :


Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
1.ps1 2.ps1 3.ps1 4.ps1 5.ps1 6.ps1 7.ps1 8.ps1 9.ps1 10.ps1
1 $env:COMPUTERNAME
2 $arr = @()
3 $counter = 1;
4 do {
5 $elmt = Read-Host -Prompt "Array name - $counter"
6 $arr += $elmt
7 $counter += 1
8 }while($counter -le 6)
9 Write-Host "Names begin with 'r' "
10 foreach($elmt in $arr) {
11 if ($elmt -like "r*") {
12 Write-Host " - $elmt";
13 }
14 }
PS C:\Windows\system32> C:\Users\sagar\Documents\Assgnmt2\10.ps1
DESKTOP-58E27UA
Array name - 1: sagar
Array name - 2: ladla
Array name - 3: rahul
Array name - 4: mainani
Array name - 5: ramya
Array name - 6: shah
Names begin with 'r'
- rahul
- ramya
PS C:\Windows\system32>
Ln 13 Col 25
140%
Type here to search
ENG
16:32
30-04-2020