**##Arithmetic Operations: Addition**

$a=15

$b=30

$c=$a+$b

$c

---------------------------------------------------

**##Subtraction**

$a=15

$b=30

$c=$a-$b

$c

---------------------------------------------------

**##multiplication**

$a=15

$b=30

$c=$a\*$b

$c

---------------------------------------------------

**## Divison**

$a=15

$b=30

$c=$a/$b

$c

---------------------------------------------------

**##Mod**

$a=15

$b=30

$c=$a%$b

$c

---------------------------------------------------

**##Simple\_for**

$array = @("item1", "item2", "item3")

for($i = 0; $i -lt $array.length; $i++){ $array[$i] }

----------------------------------------------------

**##for\_each**

$array = @("item1", "item2", "item3")

foreach ($element in $array)

{ $element

}

----------------------------------------------------

##simple\_if

$x = 10

if($x -le 20){

write-host("This is if statement")

}

----------------------------------------------------

##if\_elseif\_else

$x = 30

if($x -eq 10){

write-host("Value of X is 10")

} elseif($x -eq 20){

write-host("Value of X is 20")

} elseif($x -eq 30){

write-host("Value of X is 30")

} else {

write-host("This is else statement")

}

---------------------------------------------------

##if\_else

$x = 30

if($x -le 20){

write-host("This is if statement")

}else {

write-host("This is else statement")

}

----------------------------------------------------

##nested\_if

$x = 30

$y = 10

if($x -eq 30){

if($y -eq 10) {

write-host("X = 30 and Y = 10")

}

}

---------------------------------------------------

##simple\_switch

switch(3){

1 {"One"}

2 {"Two"}

3 {"Three"}

4 {"Four"}

3 {"Three Again"}

}

----------------------------------------------------

##switch\_break

switch(3){

1 {"One"}

2 {"Two"}

3 {"Three"; break }

4 {"Four"}

3 {"Three Again"}

}

---------------------------------------------------

##switch\_array\_as\_input

switch(4,2){

1 {"One"}

2 {"Two"}

3 {"Three"; break }

4 {"Four"}

3 {"Three Again"}

}

-----------------------------------------------------

##while

$array = @("item1", "item2", "item3")

$counter = 0;

while($counter -lt $array.length){

$array[$counter]

$counter += 1

$array[0]

}

----------------------------------------------------

##do\_while

$array = @("item1", "item2", "item3")

$counter = 0;

do {

$array[$counter]

$counter += 1

} while($counter -lt $array.length)

-------------------------------------------------------

##function using param

function Get-Square([int]$x)

{

$x = Read-Host 'enter x value'

$res = $x \* $x

return $res

}

--------------------------------------------------------

##Array

$myList = @(0..4)

write-host("Print array")

$myList

--------------------------------------------------------

##Cheatsheet

(Get-Item C:\Users\vantaku.sravani\Desktop\powershell).LastAccessTime

Move-Item -Path C:\Users\vantaku.sravani\Desktop\powershell -Destination Documents

Remove-Item C:\Users\vantaku.sravani\Desktop\powershell\add.ps1

Rename-Item -Path C:\Users\vantaku.sravani\Desktop\powershell\FibDiamond.ps1 -NewName "FiboDiamond.ps1"

Get-Service | Where-Object {$\_.Status -eq 'Running'}

Get-ChildItem -Path C:\Users

Get-Content -Path C:\Users\vantaku.sravani\Desktop\Powershell\KT\_Notes.txt -TotalCount 5

Get-Process | Where-Object {$KT\_Notes.txt -gt 100}

Wait-Process -Name "notepad"

Get-Process | Sort-Object name -Descending | Select-Object -Index 0,1,2,3,4

-------------------------------------------------------------------------------------------------------------------------------------------------------

##Exception Handling

$uri = Read-Host 'Enter the URL'

try {

$webResults = Invoke-WebRequest -Uri $uri -ErrorAction Stop

}

catch {

$statusCodeValue = $\_.Exception.Response.StatusCode.value\_\_

switch ($statusCodeValue)

{

400 {

Write-Warning -Message "HTTP Status Code 400 Bad Request. Check the URL and try again."

}

401 {

Write-Warning -Message "HTTP Status Code 401 Unauthorized."

}

403 {

Write-Warning -Message "HTTP Status Code 403 Forbidden. Server may be having issues. Check the URL and try again."

}

404 {

Write-Warning -Message "HTTP Status Code 404 Not found. Check the URL and try again."

}

500 {

Write-Warning -Message "HTTP Status Code 500 Internal Server Error."

}

Default {

throw

}

}

-----------------------------------------------------------------------------------------------------------------------------------------------------------$a=15

$b=30

$c=$a%$b

$c

---------------------------------------------------

##Simple\_for

$array = @("item1", "item2", "item3")

for($i = 0; $i -lt $array.length; $i++){ $array[$i] }

----------------------------------------------------

##for\_each

$array = @("item1", "item2", "item3")

foreach ($element in $array)

{ $element

}

----------------------------------------------------

##simple\_if

$x = 10

if($x -le 20){

write-host("This is if statement")

}

----------------------------------------------------

##if\_elseif\_else

$x = 30

if($x -eq 10){

write-host("Value of X is 10")

} elseif($x -eq 20){

write-host("Value of X is 20")

} elseif($x -eq 30){

write-host("Value of X is 30")

} else {

write-host("This is else statement")

}

---------------------------------------------------

##if\_else

$x = 30

if($x -le 20){

write-host("This is if statement")

}else {

write-host("This is else statement")

}

----------------------------------------------------

##nested\_if

$x = 30

$y = 10

if($x -eq 30){

if($y -eq 10) {

write-host("X = 30 and Y = 10")

}

}

---------------------------------------------------

##simple\_switch

switch(3){

1 {"One"}

2 {"Two"}

3 {"Three"}

4 {"Four"}

3 {"Three Again"}

}

----------------------------------------------------

##switch\_break

switch(3){

1 {"One"}

2 {"Two"}

3 {"Three"; break }

4 {"Four"}

3 {"Three Again"}

}

---------------------------------------------------

##switch\_array\_as\_input

switch(4,2){

1 {"One"}

2 {"Two"}

3 {"Three"; break }

4 {"Four"}

3 {"Three Again"}

}

-----------------------------------------------------

##while

$array = @("item1", "item2", "item3")

$counter = 0;

while($counter -lt $array.length){

$array[$counter]

$counter += 1

$array[0]

}

----------------------------------------------------

##do\_while

$array = @("item1", "item2", "item3")

$counter = 0;

do {

$array[$counter]

$counter += 1

} while($counter -lt $array.length)

-------------------------------------------------------

##function using param

function Get-Square([int]$x)

{

$x = Read-Host 'enter x value'

$res = $x \* $x

return $res

}

--------------------------------------------------------

##Array

$myList = @(0..4)

write-host("Print array")

$myList

--------------------------------------------------------

##Cheatsheet

(Get-Item C:\Users\vantaku.sravani\Desktop\powershell).LastAccessTime

Move-Item -Path C:\Users\vantaku.sravani\Desktop\powershell -Destination Documents

Remove-Item C:\Users\vantaku.sravani\Desktop\powershell\add.ps1

Rename-Item -Path C:\Users\vantaku.sravani\Desktop\powershell\FibDiamond.ps1 -NewName "FiboDiamond.ps1"

Get-Service | Where-Object {$\_.Status -eq 'Running'}

Get-ChildItem -Path C:\Users

Get-Content -Path C:\Users\vantaku.sravani\Desktop\Powershell\KT\_Notes.txt -TotalCount 5

Get-Process | Where-Object {$KT\_Notes.txt -gt 100}

Wait-Process -Name "notepad"

Get-Process | Sort-Object name -Descending | Select-Object -Index 0,1,2,3,4

-------------------------------------------------------------------------------------------------------------------------------------------------------

##Exception Handling

$uri = Read-Host 'Enter the URL'

try {

$webResults = Invoke-WebRequest -Uri $uri -ErrorAction Stop

}

catch {

$statusCodeValue = $\_.Exception.Response.StatusCode.value\_\_

switch ($statusCodeValue)

{

400 {

Write-Warning -Message "HTTP Status Code 400 Bad Request. Check the URL and try again."

}

401 {

Write-Warning -Message "HTTP Status Code 401 Unauthorized."

}

403 {

Write-Warning -Message "HTTP Status Code 403 Forbidden. Server may be having issues. Check the URL and try again."

}

404 {

Write-Warning -Message "HTTP Status Code 404 Not found. Check the URL and try again."

}

500 {

Write-Warning -Message "HTTP Status Code 500 Internal Server Error."

}

Default {

throw

}

}

-----------------------------------------------------------------------------------------------------------------------------------------------------------