# Day 7 - Shell scripting

**Assignment 1: count the number of files and folders present in the directory. if possible take the directory path from the user.**

| #!/bin/bash  read -p "enter path" directorypath  folder\_count=0  for file in $directorypath/\*  do  if [ -d $file ]  then  ((folder\_count++))  fi  done  echo "number of folder in the directory is $folder\_count" |
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| $ chmod 777 folder.sh  $ ./folder.sh  $ enter path /home/rps/Desktop/shellprograms |
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**Assignment 2: Ensure the script checks if a specific file (e.g., myfile.txt) exists in the current directory.   
If it exists, print "File exists", otherwise print "File not found".**

| #!/bin/bash  myfile="/home/rps/Desktop/shellprograms/myfile.txt"  if [ -e $myfile ]  then  echo "file exists"  else  echo "file not found"  fi |
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**Assignment 3: Write a script that reads numbers from the user until they  
enter '0'. The script should also print whether each number is odd or even.**

| #!/bin/bash  read -p "enter the number " num  while [[ $num -ne 0 ]]  do  if [ $((num%2)) -eq 0 ]  then  echo "number is even"  else  echo "odd"  fi  read -p "enter number, if want to quit enter 0" num  done |
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**Assignment 4: Create a function that takes a filename as an argument and   
prints the number of lines in the file. Call this function from your script with different filenames.**

| #!/bin/bash  # Function to count lines in a file  function count\_lines() {  # Check if file exists  if [[ ! -f "$1" ]]  then  echo "Error: File '$1' does not exist."  return 1  else  # Use wc command to count lines  number\_of\_lines=$(wc -l < "$1")  echo "$1 has $number\_of\_lines lines.”  fi  }  # Call the function with different filenames  filenames=("data.txt" "script.sh" "config.ini")  for filename in "${filenames[@]}"  do  count\_lines "$filename"  done |
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