Assignement -1

1. Write a Script to print “Hello World”.

echo "Hello World...!"

Output : -

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$ bash pr\_1.sh

Hello World...!

2. Create a script to check if a number is even or odd.

echo -n "Enter Number : "

read n

rev=0

while [ $n -ne 0 ]

do

    rev=$((rev\*10+n%10))

    n=$((n/10))

done

echo "Reverse : $rev"

Output :-

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$ bash pr\_2.sh

Enter Number :

5

5 is Odd

3. Write a simple calculator script for addition, subtraction, multiplication, and division.

echo "Enter 1st Number"

read n1

echo "Enter 2nd Number"

read n2

echo "Enter Operator"

read op

if [ "$op" = "+" ]; then

    echo "Ans : $((n1+n2))"

elif [ "$op" = "-" ]; then

    echo "Ans : $((n1-n2))"

elif [ "$op" = "\*" ]; then

    echo "Ans : $((n1\*n2))"

elif [ "$op" = "/" ]; then

    if [ "$n2" -eq 0 ]; then

        echo "Division By Zero"

    else

        echo "Ans : $((n1/n2))"

    fi

else

    echo "Invalid Operator"

fi

Output :-

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$ bash pr\_3.sh

Enter 1st Number

8

Enter 2nd Number

4

Enter Operator

\*

Ans : 32

4. Check if a given name is a file or a directory.

echo "Enter File or Directory"

read f

if [ -f "$f" ]; then

    echo "$f is File"

elif [ -d "$f" ]; then

    echo "$f is Directory"

else

    echo "$f do not exist"

fi

Output :-

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$ bash pr\_4.sh

Enter File or Directory

D:/OScript

D:/OScript is Directory

5. Write a script to display the current date and time.

echo "Date : $(date +"%d-%m-%Y")"

echo "Time : $(date +"%H:%M:%S")"

Output :-

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$ bash pr\_5.sh

Date : 26-01-2025

Time : 13:58:24

6. Create a script to check if a string is a palindrome.

echo -n "Enter String : "

read str

rev\_str=$(echo "$str" | awk '{for(i=length;i>=1;i--) printf substr($0,i,1);print ""}')

*# rev\_str=$(echo "$str" | rev)*

if [ "$rev\_str" == "$str" ]; then

    echo "Palindrom"

else

    echo "Not a Palindrom"

fi

Output :-

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$ bash pr\_6.sh

Enter String : nayan

Palindrom

7. Print numbers from 1 to N based on user input.

echo -n "Enter Number : "

read n

for((i=1; i<=n; i++))

do

    echo "$i"

done

Output :-

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$ bash pr\_7.sh

Enter Number : 7

1

2

3

4

5

6

7

8. Count and display the number of files in the current directory.

echo -n "Enter Directory : "

read dir

if [ -d "$dir" ]; then

    count=$(ls -1 "$dir" | wc -l)

    echo "Total Files : $count"

    ls -lA "$dir"

else

    echo "Directory do not exist"

fi

Output :-

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$ bash pr\_8.sh

Enter Directory : D:/OScript

Total Files : 5

total 17

drwxr-xr-x 1 Khushi 197121 0 Jan 26 13:39 .git

drwxr-xr-x 1 Khushi 197121 0 Jan 19 15:48 Assignment1

drwxr-xr-x 1 Khushi 197121 0 Jan 20 13:02 Assignment2

-rw-r--r-- 1 Khushi 197121 1089 Jan 19 13:29 LICENSE

-rw-r--r-- 1 Khushi 197121 9 Jan 19 13:29 README.md

drwxr-xr-x 1 Khushi 197121 0 Jan 26 14:01 Submission

9. Write a script to display the system uptime.

echo "Uptime : $(uptime -p)"

Output :-

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$ bash pr\_9.sh

pr\_9.sh: line 3: uptime: command not found

Uptime :

10. Create a backup script for a directory provided by the user.

echo -n "Enter Directory : "

read dir

if [ -d "$dir" ]; then

timestamp=$(date +"%Y%m%d%H%M%S")

backup\_dir="backup\_$timestamp"

cp -r "$dir" "$backup\_dir"

if [ $? -eq 0 ]; then

echo "Backup of '$dir' was successful. Backup saved as '$backup\_dir'."

else

echo "Backup failed."

fi

else

echo "Directory do not exist"

fi

Output :-

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$ bash pr\_10.sh

Enter Directory : D:/OScript

cp: copied a directory, 'D:/OScript', into itself, 'backup\_20250126140449'