

Part-C

1) Print "Hello,World!"

⇒

```
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano script.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash script.sh
Hello,World!
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ |
```

2) Print value of declared variable

⇒

```
cdac@DESKTOP-53NKIQ7: ~/l  X + v
GNU nano 6.2 script.sh
#!/bin/bash
name="Cdac Mumbai"
echo $name

cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano script.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash script.sh
Cdac Mumbai
```

3) Take input numeric value from user and print it



```
cdac@DESKTOP-53NKIQ7: ~/l X + v
GNU nano 6.2 script1.sh
echo Enter any number
read n1
echo "You entered:"$n1
```

```
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano script.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano script1.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash script1.sh
Enter any number
5
You entered:5
```

4) Add two numbers and print their addition



```
cdac@DESKTOP-53NKIQ7: ~/l X + v
GNU nano 6.2 script1.sh
echo Enter any number
read n1
echo Enter second number
read n2
Result=$(expr $n1 + $n2)
echo "Result:" $Result
```

```
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano script1.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash script1.sh
Enter any number
5
Enter second number
3
Result: 8
```

5) Even and Odd

⇒

```
cdac@DESKTOP-53NKIQ7: ~/l  ×  +  v
GNU nano 6.2 script2.sh
echo "Enter any number"
read n
if (( $n % 2 == 0 )); then
    echo "Even number"
else
    echo "Odd number"
fi

cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano script2.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash script2.sh
Enter any number
5
Odd number
```

6) Print 1 to 5 using for loop

⇒

```
cdac@DESKTOP-53NKIQ7: ~/l  ×  +  v
GNU nano 6.2 script3.sh
for n in 1 2 3 4 5
do
echo $n
done

cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano script3.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash script3.sh
1
2
3
4
5
```

7) Print 1 to 5 using while loop

⇒

```
cdac@DESKTOP-53NKIQ7: ~/l × + v
GNU nano 6.2 script4.sh
n=0
while [ $n -lt 6 ]; do
    echo $n
    n=$((n + 1))
done

cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano script4.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash script4.sh
0
1
2
3
4
5
```

8) Checking if file exists (if exists print File exists otherwise File does not exist)

⇒

```
cdac@DESKTOP-53NKIQ7: ~/l × + v
GNU nano 6.2 f1.sh
if [ -e "file.txt" ]; then
    echo "File exists"
else
    echo "File does not exist"
fi

cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash f1.sh
File does not exist
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano f1.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash f1.sh
File exists
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ |
```

9) check if a number is greater than 10 and prints a message accordingly.

⇒

```
cdac@DESKTOP-53NKIQ7: ~/l  X  +  v
GNU nano 6.2 f2.sh
echo "Enter a number"
read n
if [ $n -gt 10 ]; then
    echo $n "is greater than 10"
else
    echo $n "is not greater than 10"
fi
```

```
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano f2.sh
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash f2.sh
Enter a number
2
2 is not greater than 10
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash f2.sh
Enter a number
14
14 is greater than 10
```

10) Print Multiplication table from 1 to 5 with proper formatting

⇒

```
cdac@DESKTOP-53NKIQ7: ~/l  X  +  v
GNU nano 6.2 f3.sh
for i in {1..10}; do
    for j in {1..5}; do
        printf "%-4s" "$((i * j))"
    done
    echo
done
```

```
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ nano f3.sh
```

```
cdac@DESKTOP-53NKIQ7:~/LinuxAssignment$ bash f3.sh
```

1	2	3	4	5
2	4	6	8	10
3	6	9	12	15
4	8	12	16	20
5	10	15	20	25
6	12	18	24	30
7	14	21	28	35
8	16	24	32	40
9	18	27	36	45
10	20	30	40	50