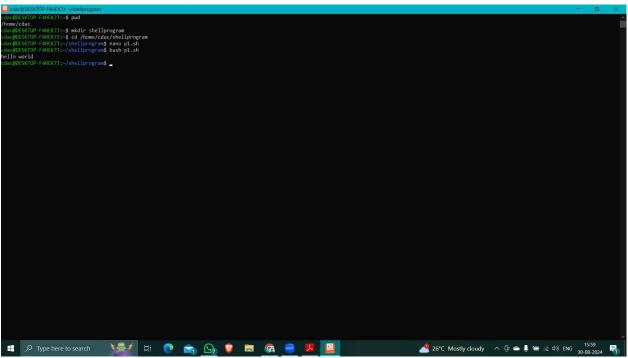
Assignment -2 OS

Part c

Question 1: Write a shell script that prints "Hello, World!" to the terminal.



Question 2: Declare a variable named "name" and assign the value "CDAC Mumbai" to it. Print the value of the variable.

```
cdac@DESKTOP-F4HEK7J: ~/shellprogram

dac@DESKTOP-F4HEK7J: ~/shellprogram$ bash p2.sh

Cdac Mumbai

dac@DESKTOP-F4HEK7J: ~/shellprogram$

dac@DESKTOP-F4HEK7J: ~/shellprogram$
```

Question 3: Write a shell script that takes a number as input from the user and prints it. Question 4: Write a shell script that performs addition of two numbers (e.g., 5 and 3) and prints the result.

```
cdac@DESKTOP-F4HEK7J: ~/shellprogram$ bash p3.sh enter number 21082001

cdac@DESKTOP-F4HEK7J: ~/shellprogram$ nano p3.sh cdac@DESKTOP-F4HEK7J: ~/shellprogram$ bash p3.sh enter number 21082001

cdac@DESKTOP-F4HEK7J: ~/shellprogram$ bash p3.sh enter number 21082001
21082001
21082001
21082001
21082001
21082001
21082001
```

```
GNU nano 6.2
#!/bin/bash
echo "enter number 1:"
read number1
echo "enter number 2:"
read number2
result=$(($number1+$number2))
echo $result
```

Question 5: Write a shell script that takes a number as input and prints "Even" if it is even, otherwise prints "Odd".

```
cdac@DESKTOP-F4HEK7J: ~
cdac@DESKTOP-F4HEK7J:~$ nano p5
cdac@DESKTOP-F4HEK7J:≈$ bash p5
enter number:
10
even
cdac@DESKTOP-F4HEK7J:≈$ bash p5
enter number:
odd
cdac@DESKTOP-F4HEK7J:~$ nano p5
cdac@DESKTOP-F4HEK7J:~$ _
cdac@DESKTOP-F4HEK7J: ~
 GNU nano 6.2
#!/bin/bash
echo enter number:
read number
if [ $(($number % 2 )) -eq 0 ]
then
        echo even
else
        echo odd
fi
```

Question 6: Write a shell script that uses a for loop to print numbers from 1 to 5.

```
cdac@DESKTOP-F4HEK7J: ~/shellprog
  GNU nano 6.2
#!/bin/bash
for n in {1..5..1}
        echo $n
```

Question 7: Write a shell script that uses a while loop to print numbers from 1 to 5.

```
GNU nano 6.2

#!/bin/bash

a=1

while [ $a -le 5 ]

do
    echo $a
    a=$((a+1))

done
```

Question 8: Write a shell script that checks if a file named "file.txt" exists in the current directory. If it

does, print "File exists", otherwise, print "File does not exist".

```
cdac@DESKTOP-F4HEK7J: ~/shellprogram
cdac@DESKTOP-F4HEK7J:~/shellprogram$ bash p8.sh
file exist
cdac@DESKTOP-F4HEK7J:~/shellprogram$ nano p8.sh
cdac@DESKTOP-F4HEK7J:~/shellprogram$
 cdac@DESKTOP-F4HEK7J; ~/shellprogram
 GNU nano 6.2
#!/bin/bash
if [ -f "p6.sh" ]
then
        echo file exist
else
        echo file not there
```

Question 9: Write a shell script that uses the if statement to check if a number is greater than 10 and prints a message accordingly.

```
cdac@DESKTOP-F4HEK7J: ~/shellprogram$ bash p7.sh
Enter number:
14
14 is greater then 10
cdac@DESKTOP-F4HEK7J:~/shellprogram$
```

```
GNU nano 6.2

#!/bin/bash

echo "Enter number:"
read num

if [ $num -gt 10 ]
then

echo "$num is greater then 10"

fi
```

Question 10: Write a shell script that uses nested for loops to print a multiplication table for numbers

from 1 to 5. The output should be formatted nicely, with each row representing a number and each column representing the multiplication result for that number.

```
cdac@DESKTOP-F4HEK7J: ~/shellprogram
cdac@DESKTOP-F4HEK7J:~/shellprogram$ nano p9.sh
cdac@DESKTOP-F4HEK7J:~/shellprogram$ bash p9.sh
 ......1.....table.....
10
.....table.....
10
12
14
16
18
20
.....table.....
12
15
18
21
24
27
30
.....table.....
12
16
20
24
28
32
36
40
.....table.....5
10
15
20
25
30
35
40
45
```

```
#!bin/bash

for n in {1..5..1}

do

        echo "......................."
        for m in {1..10..1}
        do

            echo $(($n * $m))

        done

done
```

Question 11: Write a shell script that uses a while loop to read numbers from the user until the user enters

a negative number. For each positive number entered, print its square. Use the break statement to exit the

loop when a negative number is entered.

```
cdac@DESKTOP-F4HEK7J:~/shellprogram
cdac@DESKTOP-F4HEK7J:~/shellprogram$ ls
p1.sh p2.sh p3.sh p4.sh p5.sh p6.sh p7.sh p8.sh p9.sh
cdac@DESKTOP-F4HEK7J:~/shellprogram$ nano p10.sh
cdac@DESKTOP-F4HEK7J:~/shellprogram$ bash p10.sh
Enter Number:
10
100
Enter Number:
2
4
Enter Number:
-1
1
cdac@DESKTOP-F4HEK7J:~/shellprogram$ nano p10.sh
cdac@DESKTOP-F4HEK7J:~/shellprogram$ nano p10.sh
```