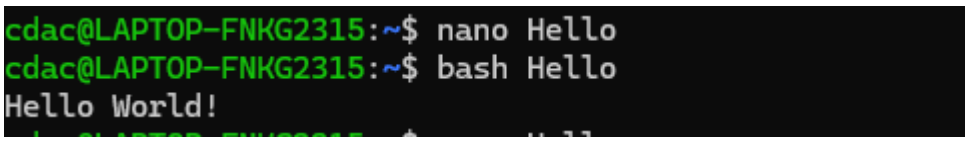
Identify True or False:

1. ls is used to list files and directories in a directory. >>>True
2. mv is used to move files and directories. >>>True
3. cd is used to copy files and directories. .>>>> False
4. pwd stands for "print working directory" and displays the current directory. >>>>True
5. grep is used to search for patterns in files. >>>>True
6. chmod 755 file.txt gives read, write, and execute permissions to the owner, and read and execute permissions to group and others. >>>.True
7. mkdir -p directory1/directory2 creates nested directories, creating directory2 inside directory1 if directory1 does not exist.
8. rm -rf file.txt deletes a file forcefully without confirmation.

Identify the Incorrect Commands:

1. chmodx is used to change file permissions. >>>>chmod
2. cpy is used to copy files and directories. >>>>cp
3. mkfile is used to create a new file. >>>>> nano,cat,touch
4. catx is used to concatenate files. >>>cat
5. rn is used to rename files. >>>mv

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@LAPTOP-FNKG2315:~$ nano Name
cdac@LAPTOP-FNKG2315:~$ bash Name
CDAC Mumbai
cdac@LAPTOP-FNKG2315:~$
```

```
 GNU nano 6.2                                                    N
#!/bin/bash
name="CDAC Mumbai"
echo $name
```

Question 3: Write a shell script that takes a number as input from the user and prints it.

```
cdac@LAPTOP-FNKG2315:~$ nano Name
cdac@LAPTOP-FNKG2315:~$ nano Number
cdac@LAPTOP-FNKG2315:~$ chmod +x Number
cdac@LAPTOP-FNKG2315:~$ ./Number
Enter number :
7
Your number is: 7
cdac@LAPTOP-FNKG2315:~$
```

```
 GNU nano 6.2                                                    Nu
#!/bin/bash
echo "Enter number :"
read number
echo "Your number is:" $number
```

Question 4: Write a shell script that performs addition of two numbers (e.g., 5 and 3) and prints the result.

```
#!/bin/bash
echo "enter the num1:"
read num1
echo "enter the num2:"
read num2
sum=$((num1 + num2))
echo sum of $num1 and $num2 is $sum
```

```
cdac@LAPTOP-FNKG2315:~$ nano addtion.sh
cdac@LAPTOP-FNKG2315:~$ chmod +x addtion.sh
cdac@LAPTOP-FNKG2315:~$ ./addtion.sh
enter the num1:
6
enter the num2:
8
sum of 6 and 8 is 14
cdac@LAPTOP-FNKG2315:~$
```

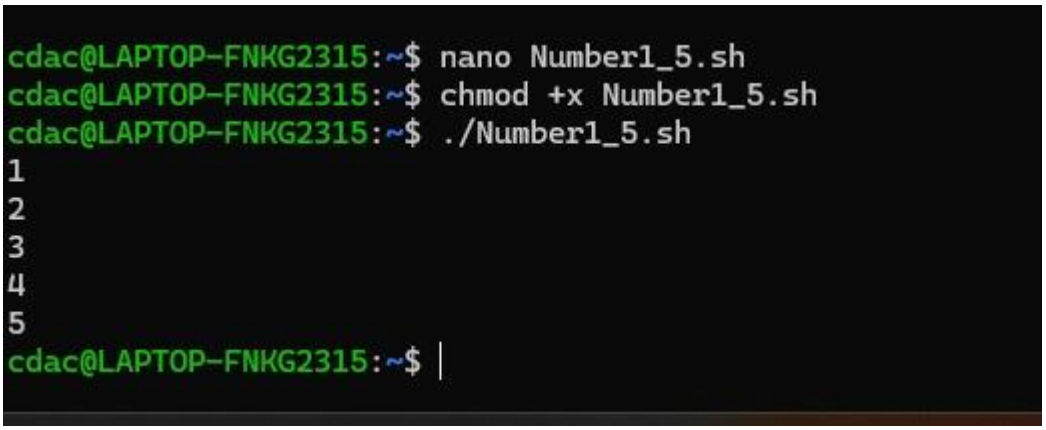
Question 5: Write a shell script that takes a number as input and prints "Even" if it is even, otherwise prints "Odd".

```
cdac@LAPTOP-FNKG2315:~$ nano odd_even
cdac@LAPTOP-FNKG2315:~$ chmod +x odd_even
cdac@LAPTOP-FNKG2315:~$ bash odd_even
7
odd
cdac@LAPTOP-FNKG2315:~$ bash odd_even
6
even
```

```
#!bin/bash
read num
if [ $(($num % 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.

```
  GNU nano 6.2
#!/bin/bash
for i in $(seq 1 5)
do
  echo $i
done
```


cdac@LAPTOP-FNKG2315:~$ nano Number1_5.sh
cdac@LAPTOP-FNKG2315:~$ chmod +x Number1_5.sh
cdac@LAPTOP-FNKG2315:~$ ./Number1_5.sh
1
2
3
4
5
cdac@LAPTOP-FNKG2315:~$