

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

```
kunalphund@LAPTOP-U5EABLCJ:~$ mkdir Assignment_2
kunalphund@LAPTOP-U5EABLCJ:~$ cd Assignment_2/
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.txt
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ cat Hello.txt
Hello World!
```

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

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ bash Hello.sh
CDAC Mumbai
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
-bash: ./Hello.sh: Permission denied
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ chmod +x Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
CDAC Mumbai
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ |
```

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

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Enter a number :
10
10
```

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

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Enter the first number :
10
Enter the second number :
10
The addition of two numbers is 20
```

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

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Enter the first number :
10
Even
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Enter the first number :
55
Odd
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ |
```

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

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
1
2
3
4
5
```

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

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Using while loop
1
2
3
4
5
```

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".

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
File doesnot exist
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ cat > file.txt
Hello
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
File exist
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
File exist
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ |
```

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.

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Enter a number :
10
10
less than 10
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Enter a number :
20
20
greater than 10
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Enter a number :
5
5
less than 10
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ |
```

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

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
1
2
3
4
5
6
7
8
9
10

2
4
6
8
10
12
14
16
18
20

3
6
9
12
15
18
21
24
27
30

4
8
12
16
```

column representing the multiplication result for that number.

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.

```
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ vi Hello.sh
kunalphund@LAPTOP-U5EABLCJ:~/Assignment_2$ ./Hello.sh
Enter a number:
10
100
Enter a number again:
5
25
Enter a number again:
6
36
Enter a number again:
-2
```