Part C

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

```
#!/bin/bash
echo Hello, World!

root@Rishabh:~/ShellProgramming# nano a1
root@Rishabh:~/ShellProgramming# bash a1
Hello, World!
root@Rishabh:~/ShellProgramming# _
```

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

```
#!/bin/bash
name="CDAC Mumbai"
echo $name

root@Rishabh:~/ShellProgramming# nano a1
root@Rishabh:~/ShellProgramming# bash a1
CDAC Mumbai
```

#!/bin/bash

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

```
echo "Enter a number"
read number
echo "$number"
echo "$number"

root@Rishabh:~/ShellProgramming# nano 3
root@Rishabh:~/ShellProgramming# bash 3
Enter a number
4
4
root@Rishabh:~/ShellProgramming# _
```

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

```
root@Rishabh:~/ShellProgramming# nano d
root@Rishabh:~/ShellProgramming# bash d
Enter first number
4
Enter second number
6
Addition is: 10
root@Rishabh:~/ShellProgramming# _
```

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

```
root@Rishabh:~/ShellProgramming# bash e
Enter a number to check even/odd

4
Even
root@Rishabh:~/ShellProgramming# bash e
Enter a number to check even/odd

5
Odd
root@Rishabh:~/ShellProgramming# _
```

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

```
#!/bin/bash
a=0
for a in 1 2 3 4 5
do
echo $a
done
```

```
root@Rishabh:~/ShellProgramming# nano f
root@Rishabh:~/ShellProgramming# bash f
1
2
3
4
5
root@Rishabh:~/ShellProgramming# _
```

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

```
root@Rishabh:~/ShellProgramming# nano g
root@Rishabh:~/ShellProgramming# bash g
1
2
3
4
5
root@Rishabh:~/ShellProgramming# _
```

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".

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.