Task 1 – For Loop

```
#!/bin/bash

for car in maruti honda volvo audi bmw
do

        echo "$car"

done
~
~
~
~
~
~
```

```
[Jenishs-MacBook-Air:shell jenishkotadiya$ vim for_loop.sh
[Jenishs-MacBook-Air:shell jenishkotadiya$ ./for_loop.sh
 maruti
 honda
 volvo
 audi
 bmw
[Jenishs-MacBook-Air:shell jenishkotadiya$ vim for_loop.sh
 Jenishs-MacBook-Air:shell jenishkotadiya$ ▉
```

count.sh

```
#!/bin/bash

for i in {1..10}
do

        echo "$i"

done
~
~
~
~
~
~
~
~
```

```
[Jenishs-MacBook-Air:shell jenishkotadiya$ ./for_loop.sh
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
[Jenishs-MacBook-Air:shell jenishkotadiya$ vim for_loop.sh
 Jenishs-MacBook-Air:shell jenishkotadiya$ ▉
```

Task 2 – While Loop

```
#!/bin/bash

echo "Enter a number:"
read num

while [ $num -ge 0 ]
do
    echo $num
    num=$((num - 1))
done

echo "Done!"

~
~
```

```
Jenishs-MacBook-Air:shell jenishkotadiya$ chmod 777 while_loop.sh
Jenishs-MacBook-Air:shell jenishkotadiya$ ./while_loop.sh
Enter a number:
12
12
11
10
9
8
7
6
5
4
3
2
1
0
Done!
Jenishs-MacBook-Air:shell jenishkotadiya$ vim while_loop.sh
Jenishs-MacBook-Air:shell jenishkotadiya$ █
```

Task 3 – Command-Line Arguments

```
#!/bin/bash

if [ -z "$1" ]
then
    echo "Usage: ./greet.sh <name>"
else
    echo "Hello, $1!"
fi

~
~
```

```
Jenishs-MacBook-Air:shell jenishkotadiya$ chmod 777 command_line.sh
Jenishs-MacBook-Air:shell jenishkotadiya$ ./command_line.sh
Usage: ./greet.sh <name>
Jenishs-MacBook-Air:shell jenishkotadiya$ ./command_line.sh jenish
Hello, jenish!
Jenishs-MacBook-Air:shell jenishkotadiya$ █
```

Task 4 – Error Handling

```bash
#!/bin/bash

set -e

mkdir /tmp/devops-test || echo "Directory already exists"

cd /tmp/devops-test || { echo "Failed to enter directory"; exit 1; }

touch testfile.txt || echo "Failed to create file"

echo "Script completed successfully"
```

```
[Jenishs-MacBook-Air:shell jenishkotadiya$ vim error.sh
[Jenishs-MacBook-Air:shell jenishkotadiya$ chmod 777 error.sh
[Jenishs-MacBook-Air:shell jenishkotadiya$
[Jenishs-MacBook-Air:shell jenishkotadiya$
[Jenishs-MacBook-Air:shell jenishkotadiya$
[Jenishs-MacBook-Air:shell jenishkotadiya$ ./error.sh
Script completed successfully
Jenishs-MacBook-Air:shell jenishkotadiya$
```