1. List of problems that I have practiced today.

4. While loop :

```
(saurabh@ LenovoLegion5)-[~/ShellScripting/ShellPractice]
$ cat 04_whileLoop.sh
#! /bin/bash

valid=true
count=1

while [ $valid ]
do
        echo $count
        if [ $count -eq 5 ];
        then
                break
        fi
        ((count++))
done
```

```
(saurabh@ LenovoLegion5)-[~/ShellScripting/ShellPractice]
$ ./04_whileLoop.sh
1
2
3
4
5
```

```
(saurabh@ LenovoLegion5)-[~/ShellScripting/ShellPractice]
$ 
```

5. For loop :

```
(saurabh@ LenovoLegion5)-[~/ShellScripting/ShellPractice]
$ cat 05_forLoop.sh
#! /bin/bash

#for i in 1 2 3 4 5
#do
#       echo $i
#done

for i in {1..5}
do
        echo $i
done
```

```
(saurabh@ LenovoLegion5)-[~/ShellScripting/ShellPractice]
$ ./05_forLoop.sh
1
2
3
4
5
```

```
(saurabh@ LenovoLegion5)-[~/ShellScripting/ShellPractice]
$ 
```

6. Taking input from user :

7. If statement :

8. If else statement with logical and :

9. If else statement with logical OR :

10. If else if :

```
┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellPractice]
└─$ cat 10_ifelse.sh
#! /bin/bash

echo "Enter your age : "
read age
echo "Enter your gender (M/F) : "
read gender

if [[ $age -ge 18 && $gender == 'F' ]];
then
        echo "You're eligible for marriage."
elif [[ $age -ge 21 && $gender == 'M' ]];
then
        echo "You're eligible for marriage."
else
        echo "You're not eligible for marriage."
fi
```

```
┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellPractice]
└─$ ./10_ifelse.sh
Enter your age :
19
Enter your gender (M/F) :
M
You're not eligible for marriage.

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellPractice]
└─$ 
```

11. Case :

```
┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellPractice]
└─$ cat 11_case.sh
#! /bin/bash

echo -n "Enter the number of day in week : "
read num

case $num in
        1)
                echo "Its Monday."
                ;;
        2)
                echo "Its Tuesday."
                ;;
        3)
                echo "Its Wednesday."
                ;;
        4)
                echo "Its Thursday."
                ;;
        5)
                echo "Its Friday."
                ;;
        6)
                echo "Its Saturday."
                ;;
        7)
                echo "Its Sunday."
                ;;
        *)
                echo "Not a valid week day."
esac
```

```
┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellPractice]
└─$ ./11_case.sh
Enter the number of day in week : 7
Its Sunday.

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellPractice]
└─$ 
```

12. Command-line Arguments :

13. Combining two strings :

14.Substring

15. Function

16. Function with parameter :

```
(saurabh㉿LenovoLegion5)-[~/ShellScripting/ShellPractice]
$ cat 16_function_parameters.sh
#! /bin/bash

Rectangle_Area() {
        area=$(($1 * $2))
        echo "Area of rectangle is : $area"
}

Rectangle_Area 10 20
```

```
(saurabh㉿LenovoLegion5)-[~/ShellScripting/ShellPractice]
$ ./16_function_parameters.sh
Area of rectangle is : 200
```

```
(saurabh㉿LenovoLegion5)-[~/ShellScripting/ShellPractice]
$
```