

Practical 2

1) Write a bash script to print from user input.

Code:

```
echo "Please enter your name!"
read name
echo "Hello! $name"
```

Output:

```
go-d-code@code-valley:~/Roger$ bash "/home/go-d-code/Roger/College/OS_Lab_Codes/2/user_input.sh"
Please enter your name!
Jimit Chavda
Hello! Jimit Chavda
go-d-code@code-valley:~/Roger$
```

2) Write a bash script to find whether a number is even or odd.

Code;

```
echo "Enter a number:"
read num
if ((num % 2 == 0)); then
    echo "$num is an even number"
else
    echo "$num is an odd number"
fi
```

Output:

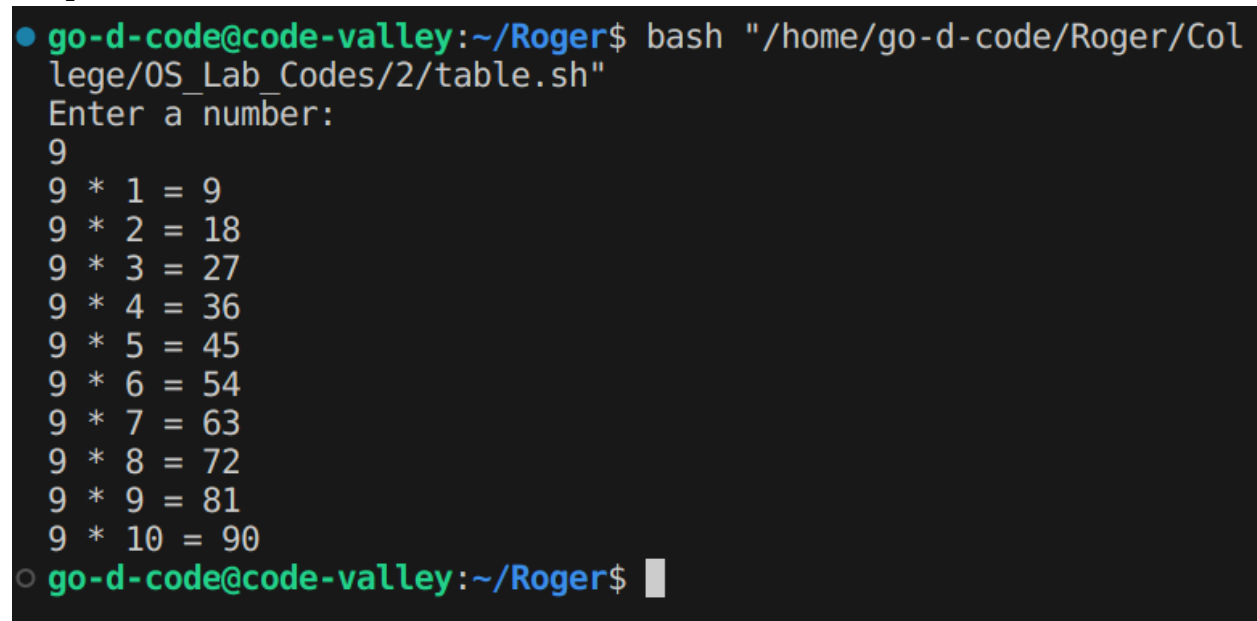
```
● go-d-code@code-valley:~/Roger$ bash "/home/go-d-code/Roger/College/OS_Lab_Codes/2/odd_even.sh"
Enter a number:
199
199 is an odd number
● go-d-code@code-valley:~/Roger$ bash "/home/go-d-code/Roger/College/OS_Lab_Codes/2/odd_even.sh"
Enter a number:
20
20 is an even number
○ go-d-code@code-valley:~/Roger$
```

3) Write a bash script to print the table of a given number.

Code:

```
echo "Enter a number:"
read num
for ((i = 1; i < 11; i++)); do
    result=$((num * i))
    echo "$num * $i = $result"
done
```

Output:



```
● go-d-code@code-valley:~/Roger$ bash "/home/go-d-code/Roger/College/OS_Lab_Codes/2/table.sh"
Enter a number:
9
9 * 1 = 9
9 * 2 = 18
9 * 3 = 27
9 * 4 = 36
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
9 * 10 = 90
○ go-d-code@code-valley:~/Roger$
```

4) Write a bash script to check whether a given no. is prime or not.

Code:

```
echo "Enter a number:"
read number
i=2

if [ $number -lt 2 ]; then
    echo "$number is not a prime number."
    exit
fi

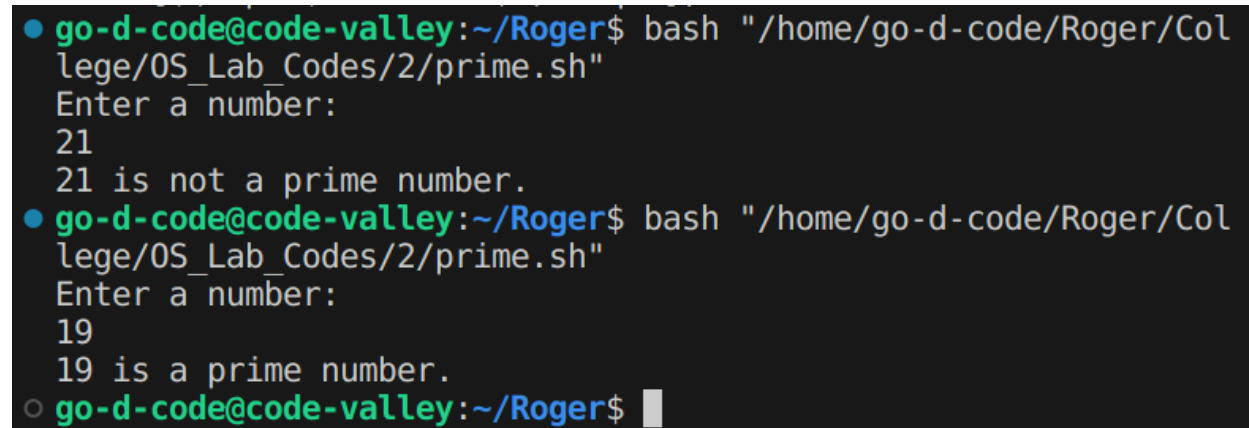
while [ $i -lt $number ]; do
```

```

if [ $((number % i)) -eq 0 ]; then
    echo "$number is not a prime number."
    exit
fi
i=$((i + 1))
done
echo "$number is a prime number."

```

Output:



```

● go-d-code@code-valley:~/Roger$ bash "/home/go-d-code/Roger/College/OS_Lab_Codes/2/prime.sh"
Enter a number:
21
21 is not a prime number.
● go-d-code@code-valley:~/Roger$ bash "/home/go-d-code/Roger/College/OS_Lab_Codes/2/prime.sh"
Enter a number:
19
19 is a prime number.
○ go-d-code@code-valley:~/Roger$ █

```

5) Write a bash script to find the simple interest.

Code:

```

echo "Enter the principle amount:"
read pamount
echo "Enter the interest rate:"
read interest
echo "Enter the number of years:"
read years
net_interest=$((pamount * interest * years / 100))
echo "total return value is $net_interest"

```

Output:

```
● go-d-code@code-valley:~/Roger$ bash "/home/go-d-code/Roger/College/OS_Lab_Codes/2/interest.sh"
Enter the principle amount:
10000
Enter the interest rate:
10
Enter the number of years:
5
total return value is 5000
○ go-d-code@code-valley:~/Roger$
```