

Operating Systems – OS

Lab Task 11 (OS-011)



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Tasks

Solution:

Task 1:

Write the code in your terminal and show the output.

```
muhammadroshaanidrees56177@Ubuntu:~$ mkdir lab11
muhammadroshaanidrees56177@Ubuntu:~$ cd lab11
muhammadroshaanidrees56177@Ubuntu:~/lab11$ touch task01.sh
muhammadroshaanidrees56177@Ubuntu:~/lab11$ cat<task01.sh
for (( i = 1; i <= 5; i++ )) ### Outer for loop ####
do
    for (( j = 1 ; j <= 5; j++ )) ### Inner for loop ####
    do
        echo -n "$i "
    done
done

muhammadroshaanidrees56177@Ubuntu:~/lab11$ chmod u+x task01.sh
muhammadroshaanidrees56177@Ubuntu:~/lab11$ ./task01.sh
1 1 1 1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 5 muhammadroshaanidrees56177@Ubuntu:~/lab11$
```

Task 2:

Write the code in your terminal and show the output:

```
muhammadroshaanidrees56177@Ubuntu:~/lab11$ touch task02.sh
muhammadroshaanidrees56177@Ubuntu:~/lab11$ cat<task02.sh
for ((i=1; i<=5; i++))
do
    for ((j=1; j<=5; j++))
    do
        echo -n " $i"
    done
    echo
done

muhammadroshaanidrees56177@Ubuntu:~/lab11$ chmod u+x task02.sh
muhammadroshaanidrees56177@Ubuntu:~/lab11$ ./task02.sh
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5
muhammadroshaanidrees56177@Ubuntu:~/lab11$
```

Task 3:

Write the code in your terminal and show the output:

```
muhammadroshaanidrees56177@Ubuntu:~/LabII$ touch task03.sh
muhammadroshaanidrees56177@Ubuntu:~/LabII$ cat<task03.sh
for count in 1 2 3
do
    echo "In the loop for $count time"
done

muhammadroshaanidrees56177@Ubuntu:~/LabII$ chmod u+x task03.sh
muhammadroshaanidrees56177@Ubuntu:~/LabII$ ./task03.sh
"In the loop for 1 time"
"In the loop for 2 time"
"In the loop for 3 time"
muhammadroshaanidrees56177@Ubuntu:~/LabII$
```

Task 4:

Write the code in your terminal and show the output:

```
muhammadroshaanidrees56177@Ubuntu:~/LabII$ touch task04.sh
muhammadroshaanidrees56177@Ubuntu:~/LabII$ cat<task04.sh
count=1
echo "Name of Planet"
for planet in Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune Pluto
do
echo "$count) $planet"
count=$((expr $count + 1))
done

muhammadroshaanidrees56177@Ubuntu:~/LabII$ chmod u+x task04.sh
muhammadroshaanidrees56177@Ubuntu:~/LabII$ ./task04.sh
Name of Planet
1) Mercury
2) Venus
3) Earth
4) Mars
5) Jupiter
6) Saturn
7) Uranus
8) Neptune
9) Pluto
muhammadroshaanidrees56177@Ubuntu:~/LabII$
```

Task 5:

Write the code in your terminal and show the output:

```
muhammadroshaanidrees56177@Ubuntu:~/LabII$ touch task05.sh
muhammadroshaanidrees56177@Ubuntu:~/LabII$ cat<task05.sh
a=1
while test $a -lt 5
do
    echo $a
    a=$((expr $a + 1))
done
muhammadroshaanidrees56177@Ubuntu:~/LabII$ chmod u+x task05.sh
muhammadroshaanidrees56177@Ubuntu:~/LabII$ ./task05.sh
1
2
3
4
muhammadroshaanidrees56177@Ubuntu:~/LabII$
```

Task 6:

Write the code in your terminal and show the output:

```
muhammadroshaanidrees56177@Ubuntu:~/LabII$ touch task06.sh
muhammadroshaanidrees56177@Ubuntu:~/LabII$ cat<task06.sh
#!/bin/sh

#Define your function here
Hello() {
    echo "Hello World"
}
Hello #function calling

muhammadroshaanidrees56177@Ubuntu:~/LabII$ chmod u+x task06.sh
muhammadroshaanidrees56177@Ubuntu:~/LabII$ ./task06.sh
Hello World
muhammadroshaanidrees56177@Ubuntu:~/LabII$
```

Task 7:

Write the code in your terminal and show the output:

```
muhammadroshaanidrees56177@Ubuntu:~/Lab11$ touch task07.sh
muhammadroshaanidrees56177@Ubuntu:~/Lab11$ cat<task07.sh
#!/bin/sh

#Define your function here
Hello() {
    echo "Hello World $1 $2"
}
Hello Zara Alt #function calling

muhammadroshaanidrees56177@Ubuntu:~/Lab11$ chmod u+x task07.sh
muhammadroshaanidrees56177@Ubuntu:~/Lab11$ ./task07.sh
Hello World Zara Alt
muhammadroshaanidrees56177@Ubuntu:~/Lab11$
```