```
GNU nano 8.1
# ! bin/bash/
fullname="aya faisal"
birth year=2002
faculty="computer sciens"
echo "full name: $fullname"
echo "bir_year: $birth_year"
echo "faculty: $faculty"
 Aya@ubuntu:~$
 Aya@ubuntu:~$
 Aya@ubuntu:~$ nano ayascript.sh
 Aya@ubuntu:~$ chmod +x ayascript.sh
 Aya@ubuntu:~$ ./ayascript.sh
 full name: aya faisal
 bir year: 2002
 faculty: computer sciens
 Aya@ubuntu:~$
 Ava@ubuntu:~$
```

## Lab2

```
echo -n "enter a value: "
read user_input
echo "you entered into: $user_input"

Aya@ubuntu:~$
Aya@ubuntu:~$
Aya@ubuntu:~$
Aya@ubuntu:~$
Aya@ubuntu:~$
Aya@ubuntu:~$
Aya@ubuntu:~$
Outline of the content of the content
```

```
Aya@ubuntu:~$
Aya@ubuntu:~$ nano ayascript.sh
Aya@ubuntu:~$ ./ayascript.sh
second city: chicago
enter a new city: 3 egypt
all cities: tokyo chicago moscow
Aya@ubuntu:~$
```

```
cities=("tokyo" "chicago" "moscow")
echo "second city: ${cities[1]}"
read -p "enter a new city: ${#cities[@]}"
echo "all cities: ${cities[@]}"
```

Lab4

```
Aya@ubuntu:~$
Aya@ubuntu:~$
Aya@ubuntu:~$ nano ayascript.sh
Aya@ubuntu:~$ ./ayascript.sh
working hours: 50
your salary is: 2500
Aya@ubuntu:~$ ./ayascript.sh
working hours: 35
10% doduction applied. your salary is: 1575
Aya@ubuntu:~$
```

```
read -p "Enter a number: " num

if [[ "$num" == *"."* ]]
then
     echo "Invalid input. Please enter an integer."

else
     if [[ "$num" -eq 0 ]]
     then
          echo "You entered zero."
     elif (( num % 2 == 0 ))
     then
          echo "$num is even."
     else
          echo "$num is odd."
     fi
```

Aya@ubuntu:~\$
Aya@ubuntu:~\$ nano ayascript.sh
Aya@ubuntu:~\$ ./ayascript.sh
Enter a number: 2
2 is even.
Aya@ubuntu:~\$ ./ayascript.sh
Enter a number: 7
7 is odd.
Aya@ubuntu:~\$ ./ayascript.sh
Enter a number: 0
You entered zero.
Aya@ubuntu:~\$

```
Aya@Ubunto~VirtualBox:-$ ./exam
Enter your grade
20
failed
Aya@Ubunto-VirtualBox:-$ ./exam
Enter your grade
50
Normal
Aya@Ubunto-VirtualBox:-$ ./exam
 Enter your grade
70
Good
Aya@Ubunto-VirtualBox:-$ ./exam
Enter your grade
80
Very Good
Aya@Ubunto-VirtualBox:-$ ./exam
 Enter your grade
100
Excellent
Aya@Ubunto-VirtualBox:-$ ./exam
 Enter your grade
```

Lab7

```
Aya@Ubunto-VirtualBox:-$ touch char
Aya@Ubunto-VirtualBox:-$ chmod +x char
Aya@Ubunto-VirtualBox: $\times$ vim char
Aya@Ubunto-VirtualBox:~$ ./char
 enter single character
 Alphabet
Ava@Ubunto-VirtualBox:~$ A
A: command not found
Aya@Ubunto-VirtualBox:-$ ./char
 enter single character
A
 Alphabet
Aya@Ubunto-VirtualBox:~$ ./char
 enter single character
2
 Numeric
Aya@Ubunto-VirtualBox:~$ ./char
 enter single character
 special char
Aya@Ubunto-VirtualBox:~$
```

## Lap 8

```
Aya@Ubunto-VirtualBox:~$ ./amin
Enter your name:
Aya
Wrong Answer! Try again:
Faisel
Wrong Answer! Try again:
Amin
You got it!
Aya@Ubunto-VirtualBox:~$
```

```
for i in {0..9}
do
    read -p "Enter number $i: " num
    sum=$((sum + num))
done
echo "Summation=$sum"

Aya@ubuntu:~$
Aya@ubuntu:~$
Aya@ubuntu:~$
```

```
Aya@ubuntu:~$
Aya@ubuntu:~$ nano ayascript.sh
Aya@ubuntu:~$ ./ayascript.sh
Enter number 0: 11
Enter number 1: 4
Enter number 2: 9
Enter number 3: 5
Enter number 4: 22
Enter number 5: 45
Enter number 6: 85
Enter number 7: 77
Enter number 8: 1
Enter number 9: 4
Summation=263
Aya@ubuntu:~$
```