

```
#!/bin/bash
```

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

```
read -p "Enter second number:" b
```

```
add=$((a + b))
```

```
sub=$((a - b))
```

```
mul=$((a * b))
```

```
div=$((a / b))
```

```
mod=$((a % b))
```

```
echo "Addition=" $add
```

```
echo "Subtraction=" $sub
```

```
echo "Multiplication=" $mul
```

```
echo "Division=" $div
```

```
echo "Modulo Division=" $mod
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```
student@mca23:~$ vim p2.sh
```

```
student@mca23:~$ ./p2.sh
```

```
Enter first number:10
```

```
Enter second number:2
```

```
Addition= 12
```

```
Substraction= 8
```

```
Multiplication= 20
```

```
Division= 5
```

```
Modulo Division= 0
```

```
student@mca23:~$
```

#i/bin/bash

```
read -p "enter name:" name
read -p "enter roll no:" rollno
read -p "enter mark:" mark
echo "name=$name"
echo "roll no=$rollno"
echo "mark=$mark"
```

```
student@mca23:~$ vim p4.sh
student@mca23:~$ ./p4.sh
enter name:nasari
enter roll no:35
enter mark:50
name=nasari
roll no=35
mark=50
student@mca23:~$
```



Terminal

student@mca23: ~

student@mca23: ~

student@mca23: ~

#!/bin/bash

read -p "enter first number:" n1

read -p "enter second number:" n2

if [\$n1 -eq \$n2]

then

echo "two numbers are equal"

else

echo "two numbers are not equal"

fi

```
student@mca23:~$ vim p1.sh
student@mca23:~$ ./p1.sh
enter first number:5
enter second number:5
two numbers are equal
student@mca23:~$ ./p1.sh
enter first number:4
enter second number:3
two numbers are not equal
student@mca23:~$
```



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```
#!/bin/bash
read -p "enter first number:" a
read -p "enter second number:" b
echo "before swap first number=$a"
echo "before swap second number=$b"
temp=$a
a=$b
b=$temp
echo "after swap first number=$a"
echo "after swap second number=$b"
```



Terminal

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```
student@mca23:~$ vi p5.sh
student@mca23:~$ ./p5.sh
bash: ./p5.sh: Permission denied
student@mca23:~$ chmod u+x p5.sh
student@mca23:~$ ./p5.sh
enter first number:5
enter second number:6
before swap first number=5
before swap second number=6
after swap first number=6
after swap second number=5
student@mca23:~$
```



```
#!/bin/bash
read -p "enter the number : " a
square=$((a * a))
cube=$((a * a * a))
echo "square=" $square
echo "cube=" $cube
```



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```
student@mca23:~$ vim p6.sh
student@mca23:~$ ./p6.sh
bash: ./p6.sh: Permission denied
student@mca23:~$ chmod u+x p6.sh
student@mca23:~$ ./p6.sh
enter the number :6
square= 36
cube= 216
student@mca23:~$
```