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GNU nano 8.0 script.bash
#!/bin/bash

echo "Program 01 - Simple shell script"
echo "$(date)"
echo "$(ls)"
echo -e "\n\n"
echo "Program 02 - Print some statement"
echo "Hello world"
echo -e "\n\n"
echo "Program 03 - Printing system variables"
echo "Bash version = $BASH_VERSION"
echo "Present working directory = $PWD"
echo -e "\n\n"
echo "Program 04 - Greeting someone"
read -p "Enter the name: " name
echo "Good morning $name"
echo -e "\n\n"
echo "Program 05 - Arithmetic operation"
n1=10
n2=20
echo "n1 = $n1, n2 = $n2, n1 + n2 = $((n1 + n2))"
echo -e "\n\n"
echo "Program 06 - Conditional statements"
read -p "Enter a number: " num
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GNU nano 8.0 script.bash
echo "Program 06 - Conditional statements"
read -p "Enter a number: " num
if [ "$num" -lt 0 ]; then
    echo "Negative number"
else
    echo "Positive number"
fi
echo -e "\n\n"
echo "Program 07 - Array"
array=('cat' 'rat' 'dog' 'parrot')
echo "Array elements = ${array[@]}"
echo -e "\n\n"
echo "Program 08 - Iterative statement"
echo "Sum of numbers from 1 to 10"
num=1
sum=0
while [ $num -le 10 ]; do
    sum=$((sum + num))
    num=$((num + 1))
done
echo "Sum of numbers is: $sum"
echo -e "\n\n"
echo "COMPLETED"
```

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Home X Kali Linux X
File Actions Edit View Help
kali@kali:~/Downloads/OS-Lab

(kali@kali)-[~/Downloads/OS-Lab]
$ nano script.bash

(kali@kali)-[~/Downloads/OS-Lab]
$ bash ./script.bash
Program 01 - Simple shell script
Fri Aug 23 10:06:52 AM IST 2024
script.bash

Program 02 - Print some statement
Hello world

Program 03 - Printing system variables
Bash version = 5.2.21(1)-release
Present working directory = /home/kali/Downloads/OS-Lab

Program 04 - Greeting someone
Enter the name: Shankaran Pillai
Good morning Shankaran Pillai
```

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Home X Kali Linux X
File Actions Edit View Help
kali@kali:~/Downloads/OS-Lab

Program 05 - Arithmetic operation
n1 = 10, n2 = 20, n1 + n2 = 30

Program 06 - Conditional statements
Enter a number: 111
Positive number

Program 07 - Array
Array elements = cat rat dog parrot

Program 08 - Iterative statement
Sum of numbers from 1 to 10
Sum of numbers is: 55

COMPLETED

(kali@kali)-[~/Downloads/OS-Lab]
$
```