

Riphah International University Islamabad



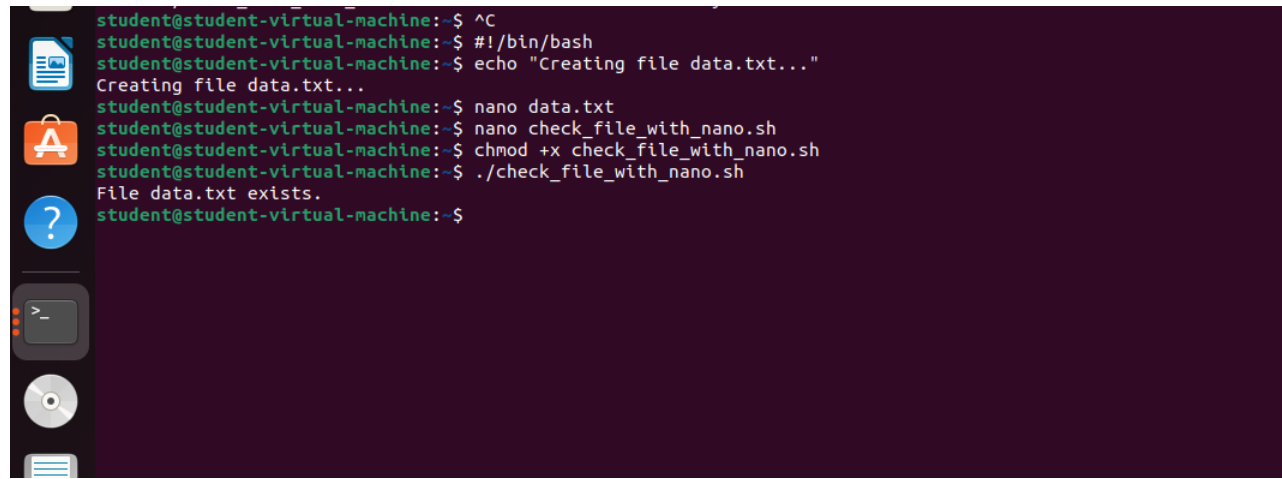
Saira Kousar

55503 (CS-5)

Operating System

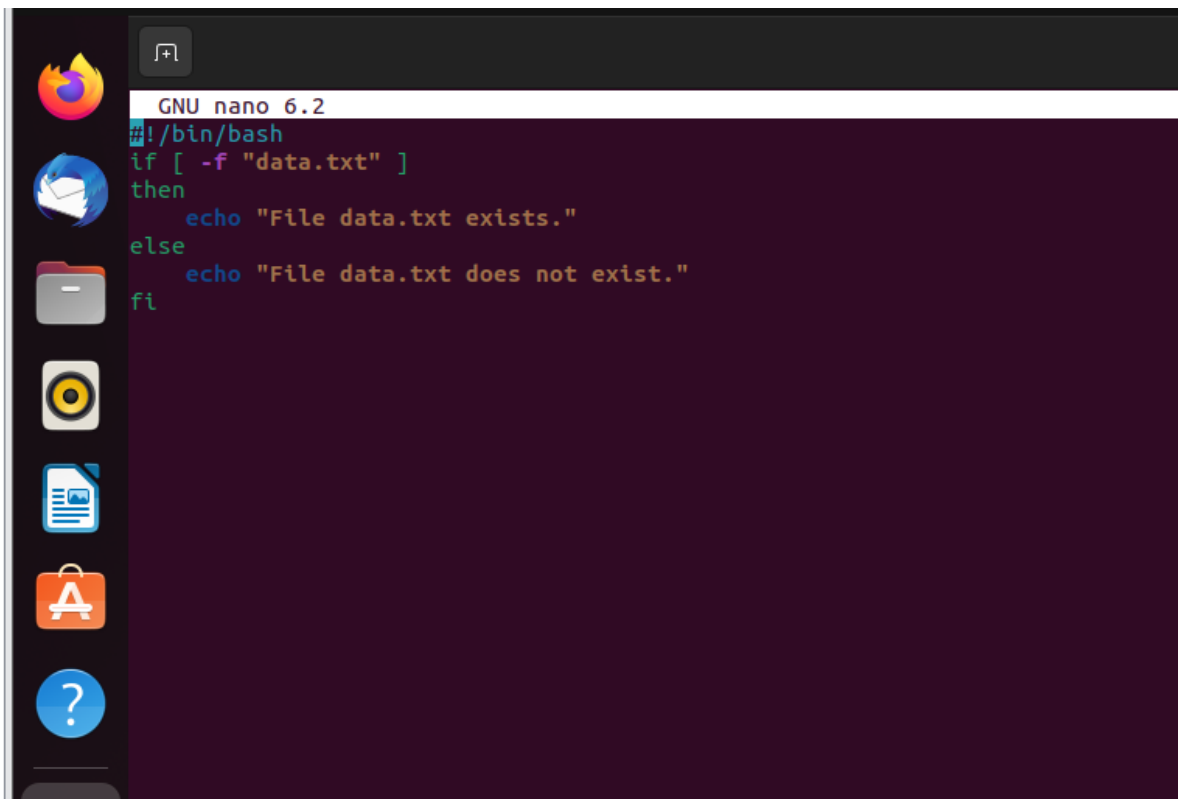
OS Lab # 09

Task # 01



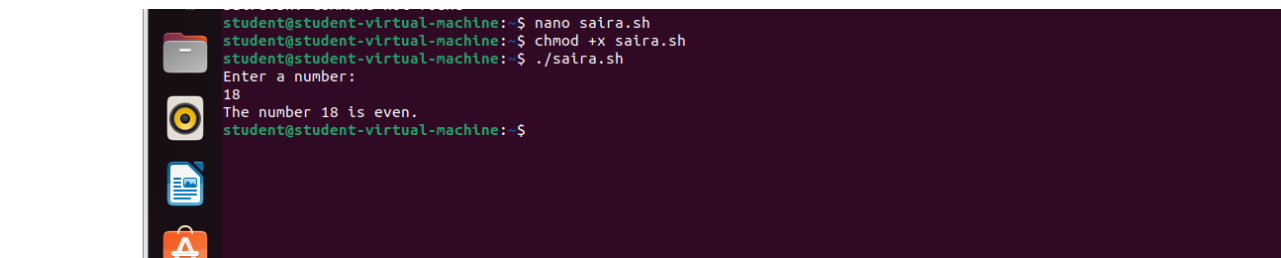
```
student@student-virtual-machine:~$ ^C
student@student-virtual-machine:~$ #!/bin/bash
student@student-virtual-machine:~$ echo "Creating file data.txt..."
Creating file data.txt...
student@student-virtual-machine:~$ nano data.txt
student@student-virtual-machine:~$ nano check_file_with_nano.sh
student@student-virtual-machine:~$ chmod +x check_file_with_nano.sh
student@student-virtual-machine:~$ ./check_file_with_nano.sh
File data.txt exists.
student@student-virtual-machine:~$
```

jit
jit (2)
jit (3)
jit (4)
jit (5)



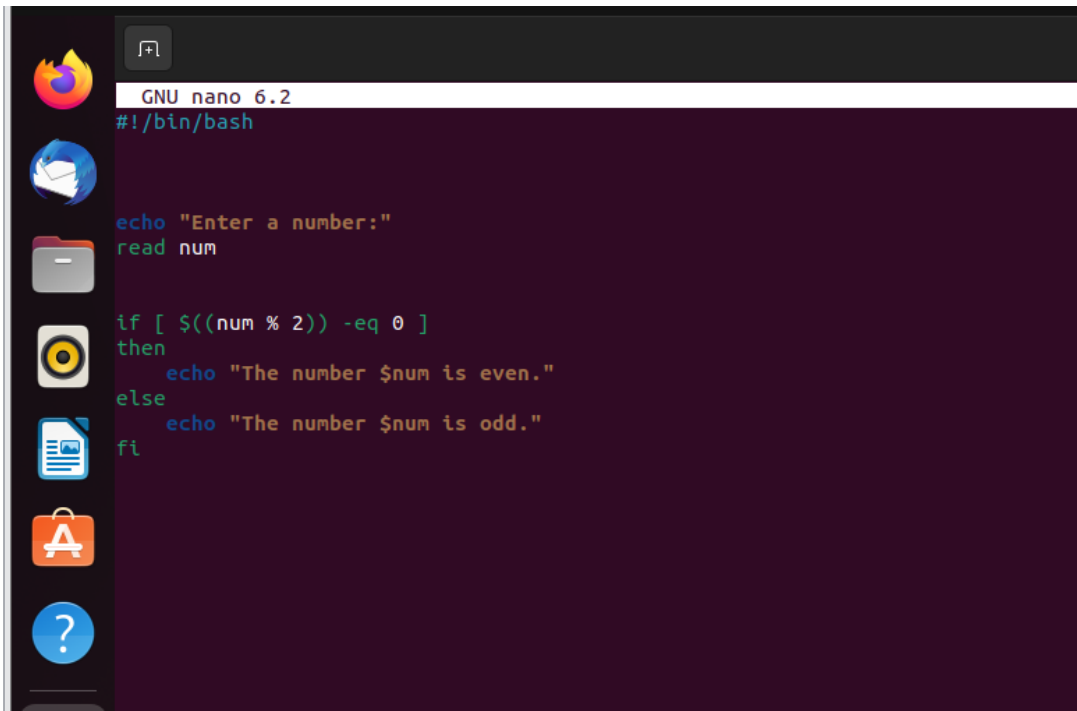
```
GNU nano 6.2
#!/bin/bash
if [ -f "data.txt" ]
then
    echo "File data.txt exists."
else
    echo "File data.txt does not exist."
fi
```

Task # 02



```
student@student-virtual-machine:~$ nano saira.sh
student@student-virtual-machine:~$ chmod +x saira.sh
student@student-virtual-machine:~$ ./saira.sh
Enter a number:
18
The number 18 is even.
student@student-virtual-machine:~$
```

fy Computer
] Ubuntu 64-bit
] Ubuntu 64-bit (2)
] Ubuntu 64-bit (3)
] Ubuntu 64-bit (4)
] Ubuntu 64-bit (5)

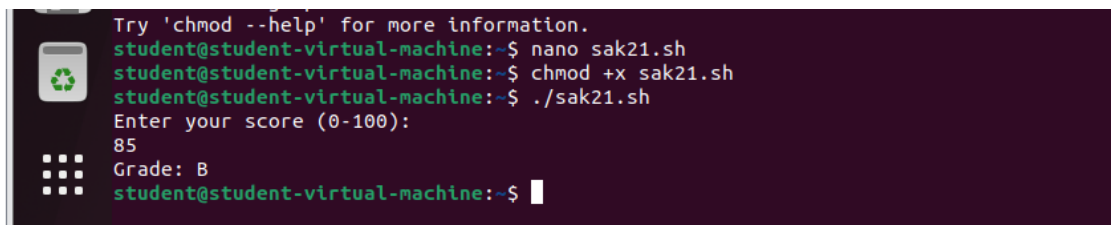


```
GNU nano 6.2
#!/bin/bash

echo "Enter a number:"
read num

if [ $((num % 2)) -eq 0 ]
then
    echo "The number $num is even."
else
    echo "The number $num is odd."
fi
```

Task # 03



```
Try 'chmod --help' for more information.
student@student-virtual-machine:~$ nano sak21.sh
student@student-virtual-machine:~$ chmod +x sak21.sh
student@student-virtual-machine:~$ ./sak21.sh
Enter your score (0-100):
85
Grade: B
student@student-virtual-machine:~$
```

computer
untu 64-bit
untu 64-bit (2)
untu 64-bit (3)
untu 64-bit (4)
untu 64-bit (5)

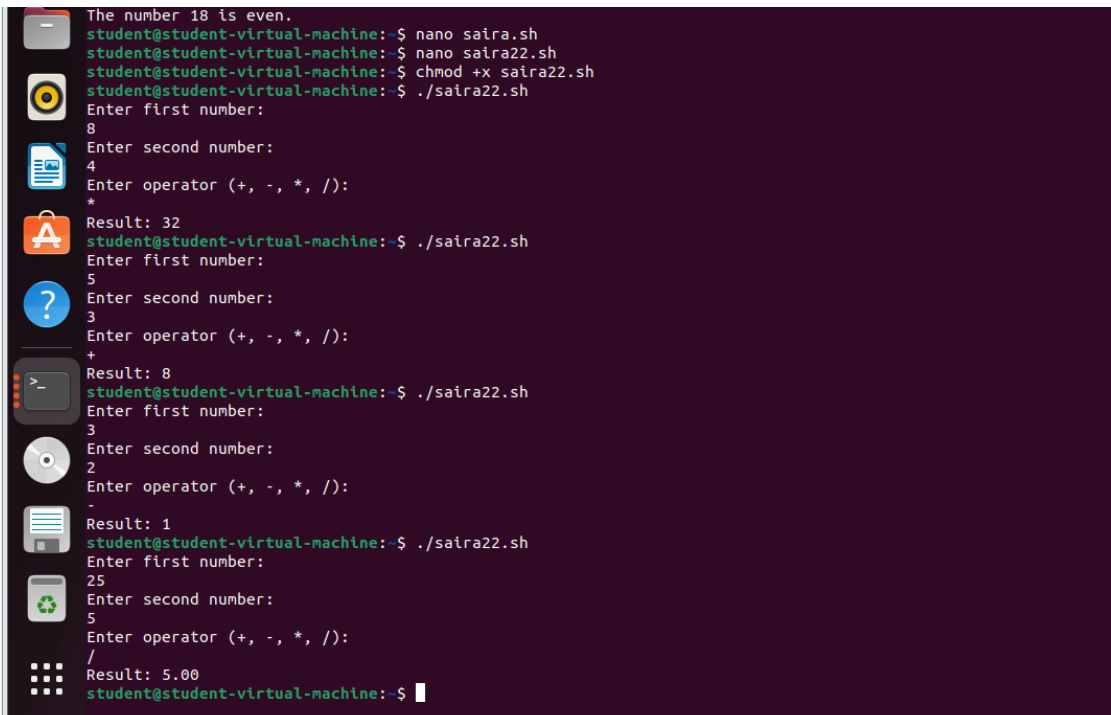


```
student@:
GNU nano 6.2
#!/bin/bash

echo "Enter your score (0-100):"
read score

if [ $score -ge 0 ] && [ $score -le 100 ]
then
    if [ $score -ge 90 ]
    then
        echo "Grade: A"
    elif [ $score -ge 80 ]
    then
        echo "Grade: B"
    elif [ $score -ge 70 ]
    then
        echo "Grade: C"
    elif [ $score -ge 60 ]
    then
        echo "Grade: D"
    else
        echo "Grade: F"
    fi
else
    echo "Invalid score! Please enter a number between 0 and 100."
fi
```

Task # 04



```
The number 18 is even.
student@student-virtual-machine:~$ nano saira.sh
student@student-virtual-machine:~$ nano saira22.sh
student@student-virtual-machine:~$ chmod +x saira22.sh
student@student-virtual-machine:~$ ./saira22.sh
Enter first number:
8
Enter second number:
4
Enter operator (+, -, *, /):
*
Result: 32
student@student-virtual-machine:~$ ./saira22.sh
Enter first number:
5
Enter second number:
3
Enter operator (+, -, *, /):
+
Result: 8
student@student-virtual-machine:~$ ./saira22.sh
Enter first number:
3
Enter second number:
2
Enter operator (+, -, *, /):
-
Result: 1
student@student-virtual-machine:~$ ./saira22.sh
Enter first number:
25
Enter second number:
5
Enter operator (+, -, *, /):
/
Result: 5.00
student@student-virtual-machine:~$
```

Activities Terminal 14:48 20 اکتوبر student@student-virtual-machine: ~

```
GNU nano 6.2 saira22.sh
#!/bin/bash

echo "Enter first number:"
read num1

echo "Enter second number:"
read num2

echo "Enter operator (+, -, *, /):"
read op

case $op in
+)
    result=$((num1 + num2))
    echo "Result: $result"
    ;;
-)
    result=$((num1 - num2))
    echo "Result: $result"
    ;;
'*)'
    result=$((num1 * num2))
    echo "Result: $result"
    ;;
/)
    result=$(echo "scale=2; $num1 / $num2" | bc)
    echo "Result: $result"
    ;;
*)
    echo "Invalid operator! Please use +, -, * or /"
    ;;
esac
```