RIPHAH INTERNATIONAL UNIVERSITY

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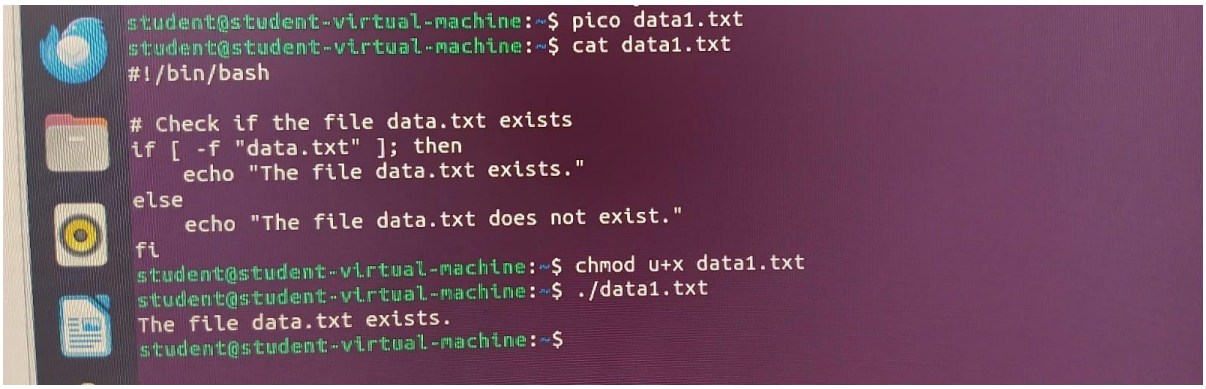
Subject : Operating system(lab)

(Lab 10)

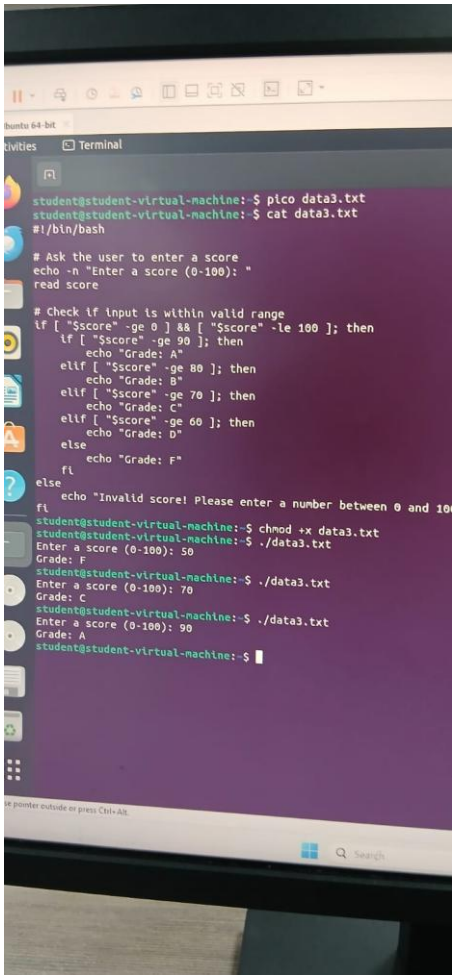
Task 1:



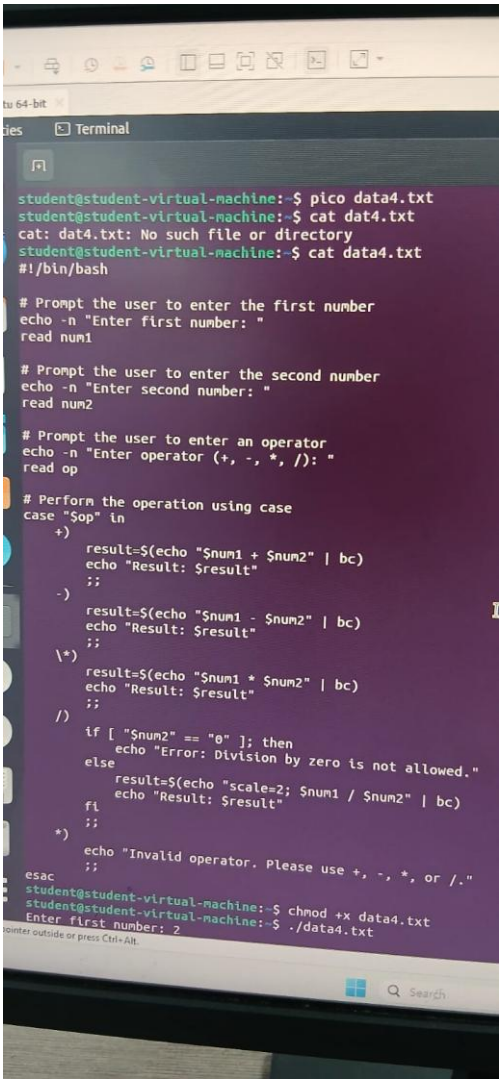
Task 2:

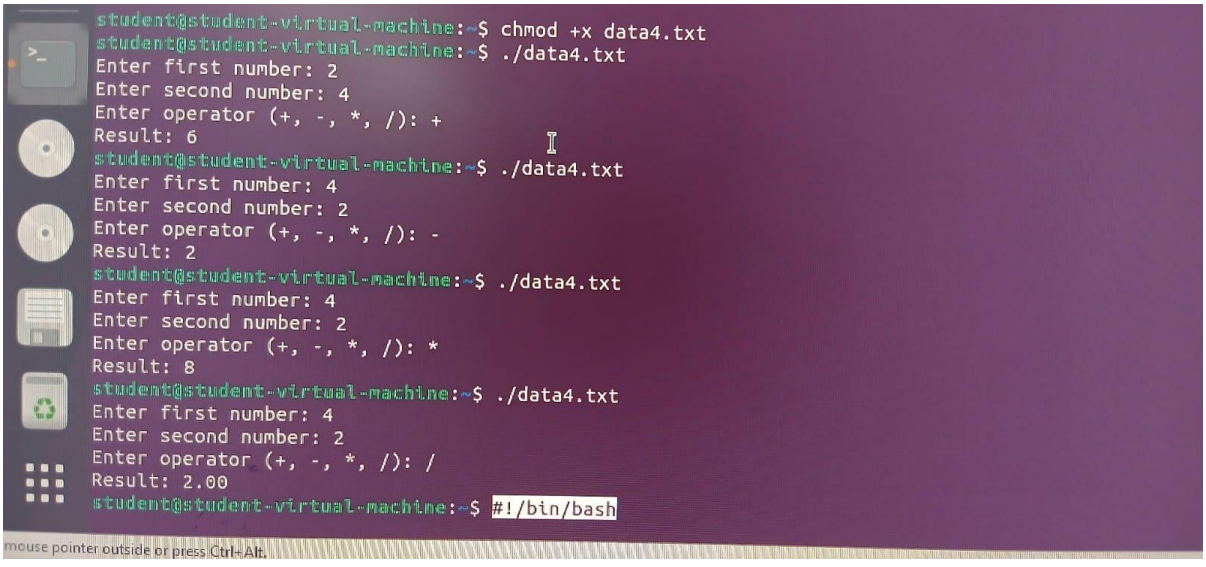
```
student@student-virtual-machine:~$ pico daat2.txt
student@student-virtual-machine:~$ cat daat2.txt
#!/bin/bash

# Ask the user to enter a number
echo -n "Enter a number: "
read number

# Check if the number is even or odd
if [ $((number % 2)) -eq 0 ]; then
    echo "The number $number is even."
else
    echo "The number $number is odd."
fi
student@student-virtual-machine:~$ chmod +x daat2.txt
student@student-virtual-machine:~$ ./daat2.txt
Enter a number: 2
The number 2 is even.
```

Task 3



Task 4:


Terminal
student@student-virtual-machine:~$ pico data4.txt
student@student-virtual-machine:~$ cat dat4.txt
cat: dat4.txt: No such file or directory
student@student-virtual-machine:~$ cat data4.txt
#!/bin/bash
Prompt the user to enter the first number
echo -n "Enter first number: "
read num1
Prompt the user to enter the second number
echo -n "Enter second number: "
read num2
Prompt the user to enter an operator
echo -n "Enter operator (+, -, *, /): "
read op
Perform the operation using case
case "$op" in
+)
result=$(echo "$num1 + $num2" | bc)
echo "Result: $result"
;;
-)
result=$(echo "$num1 - $num2" | bc)
echo "Result: $result"
;;
*)
result=$(echo "$num1 * $num2" | bc)
echo "Result: $result"
;;
/)
if ["$num2" == "0"]; then
echo "Error: Division by zero is not allowed."
else
result=$(echo "scale=2; $num1 / $num2" | bc)
echo "Result: $result"
fi
;;
*)
echo "Invalid operator. Please use +, -, *, or /."
;;
esac
student@student-virtual-machine:~$ chmod +x data4.txt
student@student-virtual-machine:~$ ./data4.txt
Enter first number: 2


student@student-virtual-machine:~$ chmod +x data4.txt
student@student-virtual-machine:~$ ./data4.txt
Enter first number: 2
Enter second number: 4
Enter operator (+, -, *, /): +
Result: 6
student@student-virtual-machine:~$ ./data4.txt
Enter first number: 4
Enter second number: 2
Enter operator (+, -, *, /): -
Result: 2
student@student-virtual-machine:~$ ./data4.txt
Enter first number: 4
Enter second number: 2
Enter operator (+, -, *, /): *
Result: 8
student@student-virtual-machine:~$ ./data4.txt
Enter first number: 4
Enter second number: 2
Enter operator (+, -, *, /): /
Result: 2.00
student@student-virtual-machine:~$ #!/bin/bash
mouse pointer outside or press Ctrl+Alt.