Lab/Project Assignment Report

Only for course Teacher						
		Needs Improvement	Developing	Sufficient	Above Average	Total Mark
Allocate mark & Percentage		25%	50%	75%	100%	5
Creativity	1					
Content Development	2					
Problem solving	1					
Organization and Formatting	1					
					Total obtained mark	
Comments						

Semester: Spring …….. / Fall …2023……

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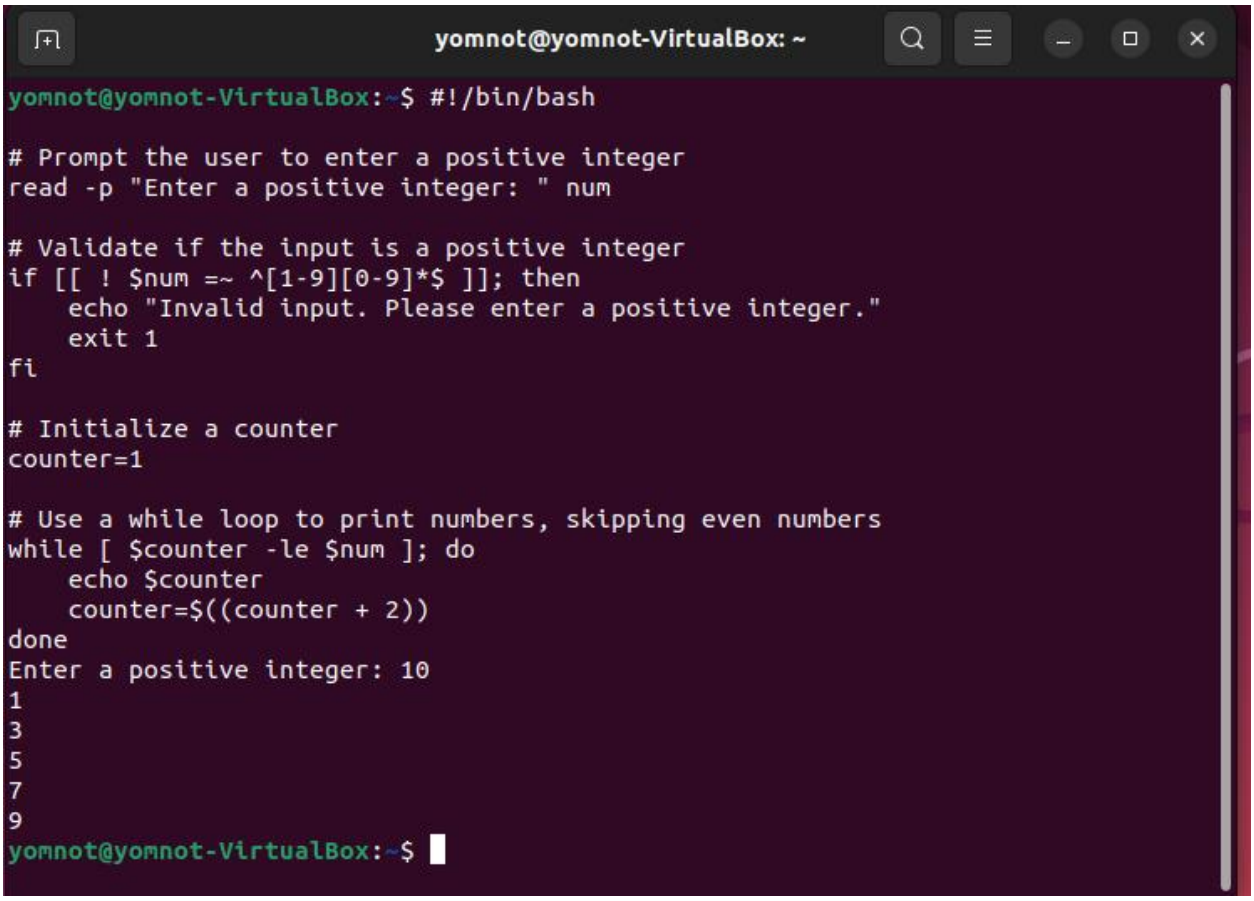
Batch: 37 **Section: E**

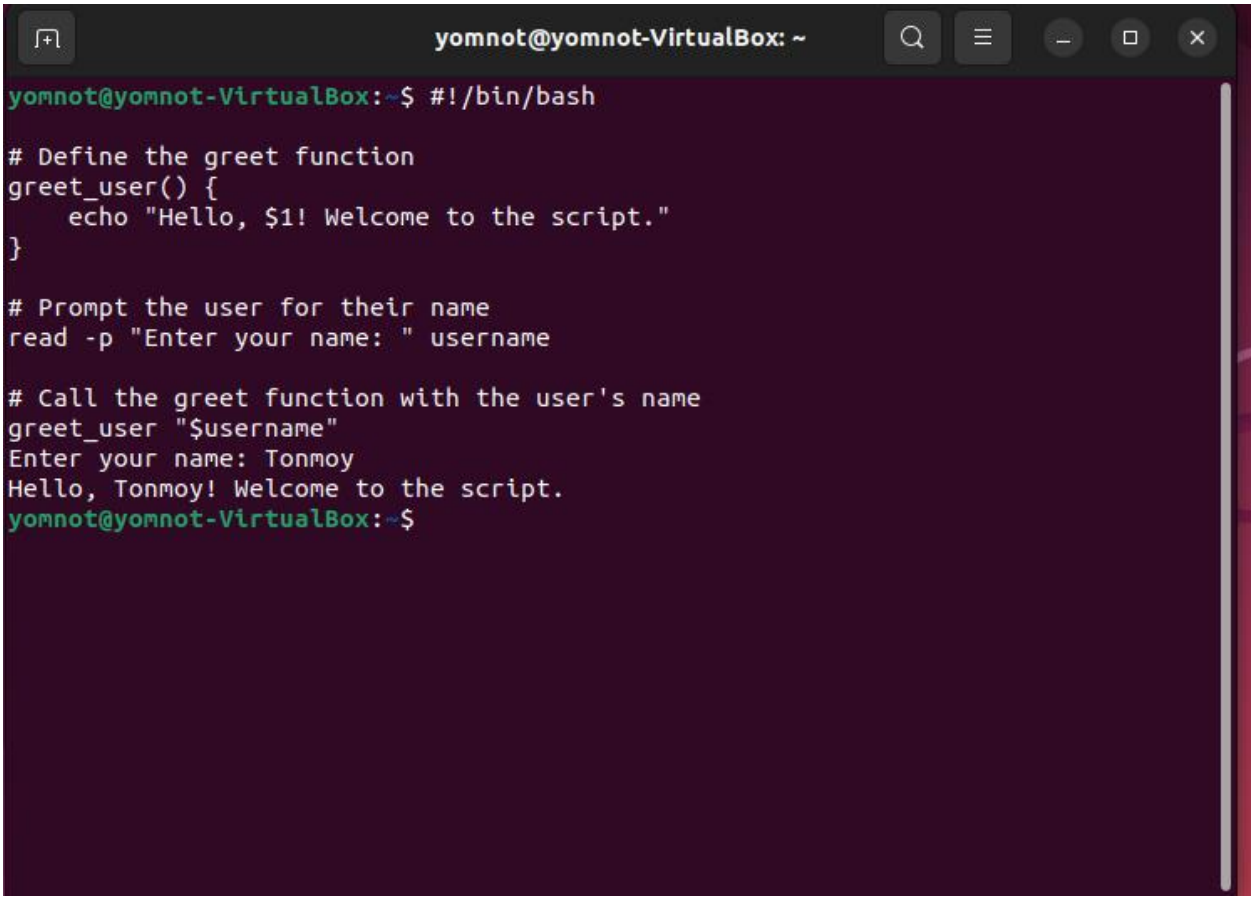
Course Code: SE 233 **Course Name: Operating System and System Programming Lab**

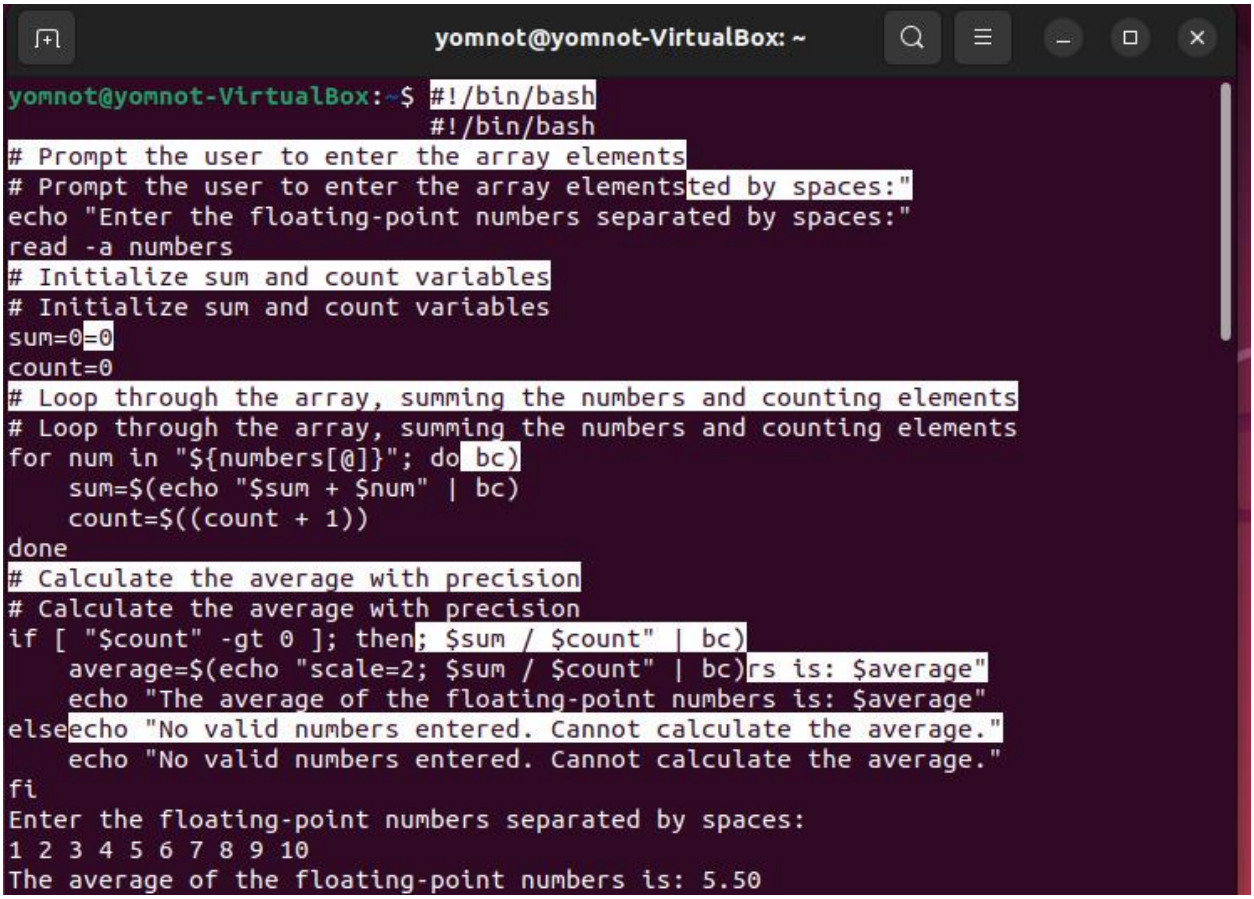
Course Teacher Name: Ishrat Sultana

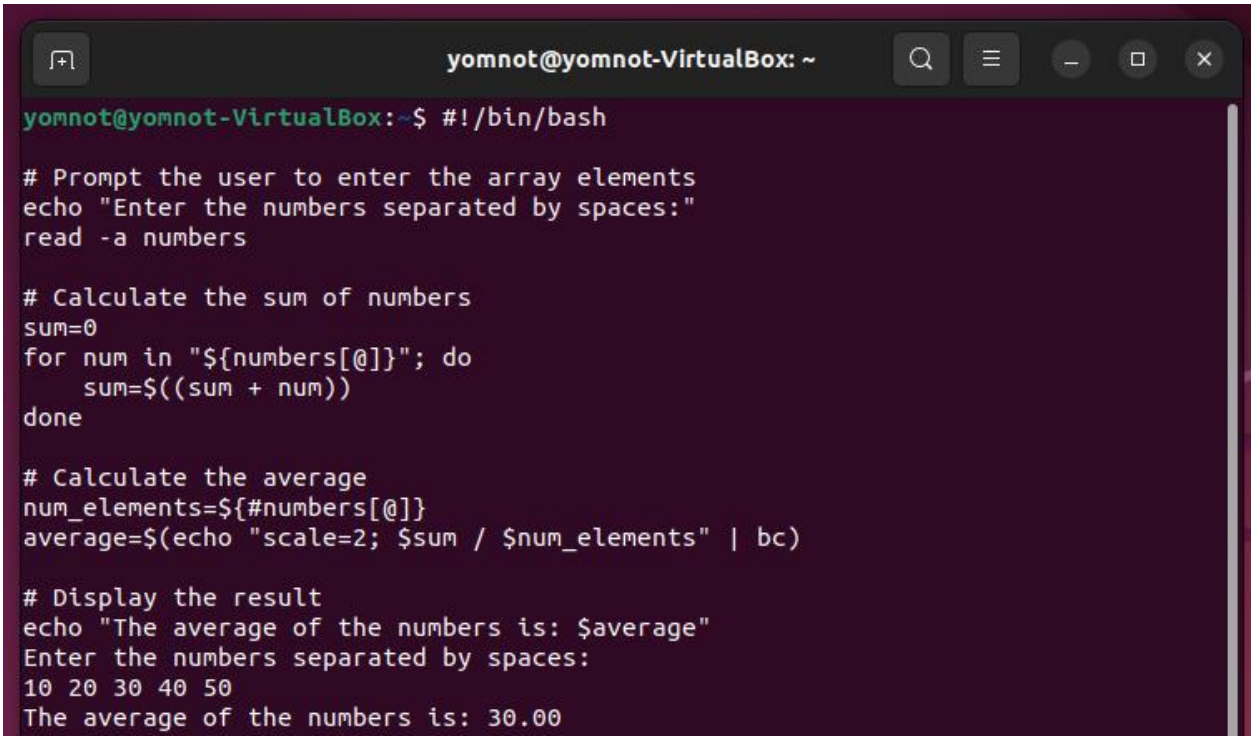
Designation: Lecturer **Department of Software Engineering**

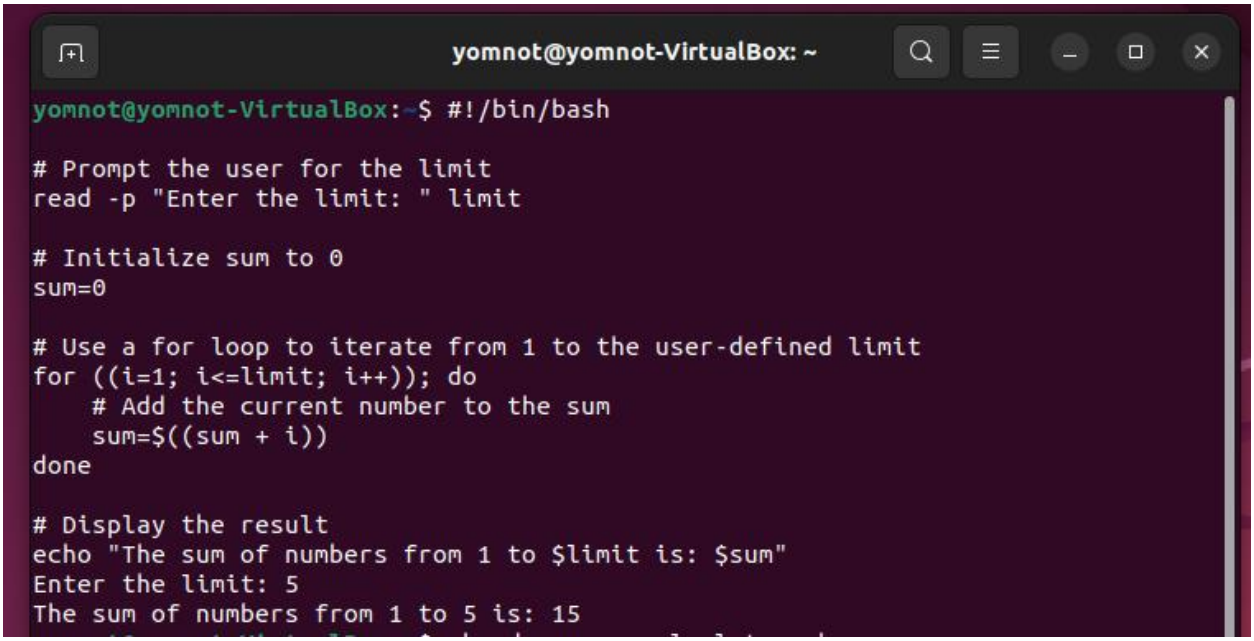
Lab Task 02


yomnot@yomnot-VirtualBox: ~
yomnot@yomnot-VirtualBox:~$ #!/bin/bash
Prompt the user to enter a positive integer
read -p "Enter a positive integer: " num
# Validate if the input is a positive integer
if [[! $num =~ ^[1-9][0-9]*$]]; then
echo "Invalid input. Please enter a positive integer."
exit 1
fi
# Initialize a counter
counter=1
# Use a while loop to print numbers, skipping even numbers
while [$counter -le $num]; do
echo $counter
counter=$((counter + 2))
done
Enter a positive integer: 10
1
3
5
7
9
yomnot@yomnot-VirtualBox:~$


yomnot@yomnot-VirtualBox: ~
yomnot@yomnot-VirtualBox:~$ #!/bin/bash
# Define the greet function
greet_user() {
echo "Hello, $1! Welcome to the script."
}
# Prompt the user for their name
read -p "Enter your name: " username
Call the greet function with the user's name
greet_user "$username"
Enter your name: Tonmoy
Hello, Tonmoy! Welcome to the script.
yomnot@yomnot-VirtualBox:~$


yomnot@yomnot-VirtualBox: ~
yomnot@yomnot-VirtualBox:~$ #!/bin/bash
#!/bin/bash
Prompt the user to enter the array elements
Prompt the user to enter the array elementsted by spaces:"
echo "Enter the floating-point numbers separated by spaces:"
read -a numbers
# Initialize sum and count variables
# Initialize sum and count variables
sum=0=0
count=0
# Loop through the array, summing the numbers and counting elements
# Loop through the array, summing the numbers and counting elements
for num in "${numbers[@]}"; do bc)
sum=$(echo "$sum + $num" | bc)
count=$((count + 1))
done
Calculate the average with precision
Calculate the average with precision
if ["$count" -gt 0]; then; $sum / $count" | bc)
average=$(echo "scale=2; $sum / $count" | bc)rs is: $average"
echo "The average of the floating-point numbers is: $average"
elseecho "No valid numbers entered. Cannot calculate the average."
echo "No valid numbers entered. Cannot calculate the average."
fi
Enter the floating-point numbers separated by spaces:
1 2 3 4 5 6 7 8 9 10
The average of the floating-point numbers is: 5.50


yomnot@yomnot-VirtualBox: ~
yomnot@yomnot-VirtualBox:~$ #!/bin/bash
Prompt the user to enter the array elements
echo "Enter the numbers separated by spaces:"
read -a numbers
# Calculate the sum of numbers
sum=0
for num in "${numbers[@]}"; do
sum=$((sum + num))
done
# Calculate the average
num_elements=${#numbers[@]}
average=$(echo "scale=2; $sum / $num_elements" | bc)
# Display the result
echo "The average of the numbers is: $average"
Enter the numbers separated by spaces:
10 20 30 40 50
The average of the numbers is: 30.00


yomnot@yomnot-VirtualBox: ~
yomnot@yomnot-VirtualBox:~$ #!/bin/bash
Prompt the user for the limit
read -p "Enter the limit: " limit
# Initialize sum to 0
sum=0
# Use a for loop to iterate from 1 to the user-defined limit
for ((i=1; i<=limit; i++)); do
# Add the current number to the sum
sum=$((sum + i))
done
Display the result
echo "The sum of numbers from 1 to $limit is: $sum"
Enter the limit: 5
The sum of numbers from 1 to 5 is: 15