**Experiment 3.3**

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**Semester:   I                                                               Date of Performance: 06/01/2023**

**Subject Name:** **Linux Administration Lab Subject Code: 22CAP-648**

* **Aim/Overview of the practical:**

**Q.1 Write shell script program to swap two numbers by using third variable.**

**Q.2 Write a shell script to print this following sequence**

**0**

**1 0**

**2 1 0**

**3 2 1 0**

**4 3 2 1 0**

**5 4 3 2 1 0**

**Q.3 Write a shell script to print the number is prime or not.**

**Q.4 Write a shell script to print number 1 to 10 use continue at 6.**

* **Answer 1:**

#!/bin/bash

# Read in two numbers

echo "Enter first number: "

read num1

echo "Enter second number: "

read num2

# Swap the numbers using a third variable

temp=$num1

num1=$num2

num2=$temp

# Print the result

echo "The swapped numbers are: $num1 and $num2"

* **Answer 2:**

#!/bin/bash

# Set the maximum number of rows in the sequence

max\_rows=5

# Loop through the rows

for ((i=0; i<=max\_rows; i++))

do

# Print the numbers in reverse order, starting with the current row number

# and decrementing down to 0

for ((j=i; j>=0; j--))

do

echo -n "$j "

done

echo

done

* **Answer 3:**

#!/bin/bash

# Check if a number is prime

# Check if the number of arguments is correct

if [ "$#" -ne 1 ]; then

echo "Usage: $0 NUMBER" >&2

exit 1

fi

# Get the number to check

number=$1

# Define a function to check if a number is prime

is\_prime() {

# Check if the number is less than 2 (1 and 0 are not considered prime)

if [ "$1" -lt 2 ]; then

echo "0"

return

fi

# Check if the number is evenly divisible by any number from 2 to the square root of the number

for ((i=2; i\*i<=$1; i++))

do

if [ $((1 % i)) -eq 0 ]; then

echo "0"

return

fi

done

echo "1"

}

# Call the function to check if the number is prime

result=$(is\_prime "$number")

# Print the result

if [ "$result" -eq "1" ]; then

echo "$number is prime"

else

echo "$number is not prime"

fi

* **Answer 4:**

#!/bin/bash

# Print numbers from 1 to 10, skipping 6

for ((i=1; i<=10; i++))

do

# Check if the current number is 6

if [ "$i" -eq 6 ]; then

# If it is, skip the rest of the loop and continue with the next iteration

continue

fi

# Print the number

echo "$i"

done

1. prints file system type on partitions as well
2. now Creating primary partition and 2 extended partitions
3. **Learning outcomes (What I have learnt):** 
   * 1. **Learn about at**
     2. **Learn about atq.**
     3. **Learn about crontab.**

**Evaluation Grid:**

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
| 1. | Demonstration and Performance  (Quiz) |  | 22 |
| 2. | Worksheet |  | 8 |