Q1. A) Write and execute the following Commands on Linux

i) Display the calendar for the current month.

cal <current month>

ii) Concatenate two files a.txt, b.txt into third file c.txt

cat a.txt b.txt > c.txt

iii) Create the following text file a.txt and write commands based on it

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LINUS IS THE CREATOR OF LINUX.

LINUX IS SECURE BY DEFAULT

Write a Linux command to display number of occurrences of each line in a file.

sort <file_name> | uniq –c

iv) Create two file Solaris.txt and Eclipse.txt to specify a delimiter for sequential Merging of files.

echo "Solaris" > Solaris.txt

echo "Eclipse" > Eclipse.txt

v) Write the VI command to save file and quite.

:wq

Q1.B) Write a shell script to find area of circle by accepting input radius

echo "Please enter the radius of the circle:"
read radius

area=$(echo "3.14159 * $radius * $radius" | bc)

echo "The area of the circle with radius $radius is: $area"

Q2. Write a shell script that accept directory name, if directory does not exist then it will create directory of same name.

#!/bin/bash

echo "Enter the directory name:"
read dirname

if [! -d "$dirname"]; then
    mkdir "$dirname"
    echo "Directory '$dirname' created successfully."
else
    echo "Directory '$dirname' already exists."
fi

Or

Q2. Write a shell script that will report the number of lines in each file within the current directory.

#!/bin/bash

for file in *; do
    if [-f "$file"]; then
        lines=$(wc -l < "$file")
        echo "$file: $lines lines"
    fi
done