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

i) Create two files a.txt and b.txt and copy both the files in c.txt.

```
cat a.txt
cat b.txt
cat c.txt
cat a.txt b.txt >> c
```

ii) Display last modification time for particular file.

```
stat -c %y a.txt
```

iii) Create a file file1.txt

1: Pooja

2: Neeta

3: Vinit

4: Divya

Write command to sort this file in reverse order.

```
cat > file1.txt
sort -r file1.txt
```

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

This is line 1 UNIX UNIX

This is line 2 unix

This is line 3 Unix Unix

This is line 4 hello

Write a linux command to display lines that search pattern “unix”.

```
cat > a.txt
grep “unix” a.txt
```

v) Write Vi command to join any two lines together.

```
shift + j
```

Q1.B) Write a shell script to find area and perimeter of rectangle.

```
#!/bin/bash

echo "Enter length:"
read length

echo "Enter breadth:"
read breadth

echo "Area: $(($length * $breadth))"
echo "Perimeter: $((2 * $length + 2 * $breadth))"
```

Q2. Write a shell script to display “ Good Morning”, “ Good afternoon” , and “Good Evening” depending on the hour .

```
#!/bin/bash

time=$(date +%H)
echo "Given time is $time"

if [ "$time" -ge 0 ] && [ "$time" -lt 12 ]; then
   echo "Good Morning"
elif [ "$time" -ge 12 ] && [ "$time" -lt 18 ]; then
   echo "Good Afternoon"
else
   echo "Good Evening"
fi
```

Or

Q2 Write a shell script to print multiplication table using command line arguments.

```
#!/bin/bash

number=$1
echo "Multiplication table for $number:"

for (( i=1; i<=10; i++ )); do
   echo "$number x $i = $((number * i))"
done
```