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

i) Create a directory FYBCA under that create a file student.txt.

```
mkdir FYBCA
Cd FYBCA
Cat > student.txt
```

ii) Display all files along with their size

```
ls -l.
```

iii) Count the number of files in current working directory.

```
ls –l | wc -l
```

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 count of lines that search pattern “unix”

```
cat > a.txt
grep -c 'unix' a.txt
```

v) Write Vi command to copy first three lines and paste after sixth line.

```
3yy
p
```

Q1. B) Write a shell script to evaluate basic arithmetic operations.

```
#!/bin/bash

echo "Enter the first number:"
read a
echo "Enter the second number:"
read b

echo "Addition: $(expr $a + $b)"
echo "Subtraction: $(expr $a - $b)"
echo "Multiplication: $(expr $a \* $b)"
echo "Division: $(expr $a / $b)"
```

Q2. Write a shell script to check whether two numbers are same or different.

```
#!/bin/bash

echo "Enter a:"
read a

echo "Enter b:"
read b

if [ $a -eq $b ]; then
   echo "a is equal to b"
else
   echo "a is not equal to b"
fi
```

OR

Q2. Write a shell script to find divisors of number

```
#!/bin/bash
echo "Enter number:"
read number

echo "Divisors of $number:"
for ((i=1; i<=$number; i++)); do
   if [ $((number%i)) -eq 0 ]; then
      echo $i
   fi
done
```