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

i) Move all files *.sh from current directory to root directory.

```
mv *.sh
```

ii) Create file a.txt and display only duplicate lines.

```
cat > a.txt
sort a.txt | uniq -d
```

iii) Change permission of a.txt as read, write access for owner, read, execute for group and only execute for other.

```
chmod 651 a.txt
```

iv) Write and execute command to check the free and used memory status of system in MB and GB.

```
free -m
free -g
```

- v) Write Vi command to delete N words beginning with character under cursor in any text file.
 dNw
- **Q1. B)** Write a shell script that displays a list of files in current directory to which the user has read, write and execute permissions.

```
#!/bin/bash
echo "Current working directory info"
var=$(pwd)
ls -1 "$var"
```

Q2. Write menu driven program to perform arithmetic operations like +, -, *, /

```
#!/bin/bash
echo "Enter the first number:"
read a
echo "Enter the second number:"
read b
while true; do
  echo -e "\nChoose an operation:"
  echo "1. Addition"
  echo "2. Subtraction"
  echo "3. Multiplication"
  echo "4. Division"
  echo "5. Exit"
  read -p "Enter your choice: " choice
  case $choice in
     1)
       echo "Result of addition: ((a + b))"
       ;;
       echo "Result of subtraction: $(($a - $b))"
       ;;
    3)
       echo "Result of multiplication: $(($a * $b))"
    4)
       if [$b -ne 0]; then
          echo "Result of division: $(($a / $b))"
       else
          echo "Error: Division by zero"
       fi
       ;;
    5)
       echo "Exiting..."
       exit 0
       ;;
       echo "Invalid choice. Please enter a number
between 1 and 5."
  esac
done
```

OR

Q2. Write a shell script that accepts any number of arguments and prints them in a reverse order.