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

i) Create file student.txt and display size of file in bytes.

touch student.txt

stat -c %s student.txt

ii) Count number of files in current working directory.

```
ls -l | grep -v '^d' | wc -l
```

iii) Redirect output of long listing of directories in abc.txt

```
ls - l > abc.txt
```

iv) Create file as follows and write commands for same.

## **Linux Unix Solaris HPUX AIX**

Write a linux command to merge a file by pasting the data into 2 columns

```
paste - - < file.txt
```

v) Write vi command to delete first n lines. ndd

**Q1.B**) Write a shell script to accept a file name and display its contents.

```
#!/bin/bash
if [ $# -ne 1 ]; then
    echo "Usage: $0 <file_name>"
    exit 1
fi
file_name=$1

if [ ! -f "$file_name" ]; then
    echo "File $file_name does not exist."
    exit 1
fi
cat "$file_name"
```

```
arithmetic operations.
#!/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))"
    2)
       echo "Result of subtraction: $(($a - $b))"
    3)
       echo "Result of multiplication: $(($a * $b))"
       if [$b -ne 0]; then
          echo "Result of division: $(($a / $b))"
          echo "Error: Division by zero"
       fi
       ;;
       echo "Exiting..."
       exit 0
       ;;
       echo "Invalid choice. Please enter a number
between 1 and 5."
       ;;
  esac
done
                        Or
Q2.Write a shell script to display odd numbers and
their sum.
#!/bin/bash sum=0
echo "First 10 odd numbers:"
for ((i = 1; i \le 19; i += 2)); do
  echo $i
  sum = \$((sum + i))
```

echo "Sum of the first 10 odd numbers: \$sum"

**Q2.** Write menu driven program to perform