```
newname.sh
if [ $# -ne 2 ]
  echo "Incorrect number of arguments! Acceptable arguments are input file, and output file."
  exit 1
fi
if [!-r $1]
then
  echo "$1 is not readable!"
  exit 1
fi
x=1
y=empty
if [ -f $2 ]
then
  while [ -f "$2.$x" ]
  x=\$((\$x+1))
  done
y="$2.$x"
mv $1 $y
exit 0
fi
mv $1 $2
booklist.sh
clear
if [ $# -ne 1 ]
then
  echo "Invalid number of arguments! Acceptable arguments are input file."
  exit 1
fi
if [!-r $1]
then
  echo "Input file is not readable!"
  exit 1
fi
if [!-w $1]
then
  echo "Input file is not writable!"
```

```
exit 1
fi
echo "Make a choice!"
echo "1) Search the booklist for entries by author"
echo "2) Add a new entry to the booklist"
echo "3) Delete an entry from the booklist (using title as the key)"
echo "4) Display all entries and the number of entries in the booklist"
echo "5) Exit"
read choice
case $choice in
1) echo "Searching booklist by author..."
 clear
 echo "Enter the author to search for:"
 read author
 grep -F "$author" $1 | gawk -F: '{printf "%s\t%s\n", $1, $2, $3}'
 exit 0
 ;;
2) echo "Adding new entry to booklist..."
 echo "Make entry as follows: Fname Lname:Title:year"
 read entry
 echo $entry >>$1
 exit 0
3) echo "Deleting an entry from the booklist..."
 echo "Enter the title of the book you wish to delete:"
 read title
 sed -i "/$title/d" ./$1
 exit 0
 ;;
4) echo "Displaying all entries and the number of entries in the booklist..."
 clear
 sort -k2 $1 | gawk -F: '{printf "%s\t%s\n", $1, $2, $3}'
 numberOfLines=$(wc -l < $1)
 echo "$numberOfLines total entries returned!"
 exit 0
5) echo "Exiting..."
 exit 0
*) echo "Invalid choice entered! Exiting..."
 exit 1
 ;;
esac
```

## Test results for newname:

- 1) ./newname.sh a.txt b.txt  $\rightarrow$  renames a.txt to b.txt
- 2) ./newname.sh a.txt b.txt → renames a.txt to b.txt.2 when b.txt and b.txt.1 exist already.

## Test results for booklist.sh:

- 1) Peter Coad → Peter Coad Java Design 2010
- 2) Shane Stacy:book:2019 → appends to end of proj3.txt
- 3) book → deletes the previous entry from proj3.txt
- 4)
  Peter Coad Java Design 2010
  Cay Hoarstmann Core Java Vol 1 2011
  Cay Hoarstmann Core Java Vol 2 2012
  Mark Sobell A Practical Guide to Linux 2014
- 5) The program exits.