

1.

```
:~$ chmod u+x 1  
:~$ ./1
```

```
#!/bin/bash
```

```
mkdir ~/QACname
```

```
cd ~/QAC
```

```
touch file1
```

```
touch file2
```

```
touch file3
```

```
mkdir ~/QACname/childDir
```

```
echo "blah" >> file1
```

```
cp ~/QACname/file1 ~/QACname/childDir
```

2.

```
-VirtualBox:~$ ./QACname/file2
Enter a number
2
the number you entered is an EVEN number
-VirtualBox:~$ ./QACname/file2
Enter a number
5
The number you entered is an ODD number
```

```
#!/bin/bash

cd ~/QACname

echo Enter a number

read r

if [ $((r%2)) = 0 ]

then echo "The number you entered is an EVEN number" |& tee -a file3
rm -i file3

if [ -e file3 ]

then

touch file3
mv file3 ~/changedFileName
else
mv file3 ~/changedFileName
echo
fi
else

echo "The number you entered is an ODD number"|& tee -a file3

rm -i file3

if [ -e file3 ]

then

touch file3
mv file3 ~/changedFileName
else
mv file3 ~/changedFileName
echo

fi
fi
```

3.

```
~$ ./3
```

```
#!/bin/bash
echo "Please enter a username"
read r
id -u $r
groups $r
```

4.

```
~$ ./4
```

```
#!/bin/bash
echo "List of all processes currently running"
ps -A | less
echo "Please enter a process you would like to end"
read r
pgrep $r
kill $r
```

5.

```
k:~$ ./5
```

```
#!/bin/bash

echo "Enter numeric values"
echo "Enter one value at a time"
echo "Press ENTER key to enter another value"
echo "To quit, press 'Q'"
echo

numericValuesArray=()
while
    true
    do read r

    if [ $r == "Q" ]
        then break
    fi

    numericValuesArray=( ${numericValuesArray[@]} $r )
done

echo

echo "The numbers you entered are listed below (in order):"
echo ${numericValuesArray[@]} | tr " " '\n' | sort -n
```

6.

Box:~\$ ./6

```
#!/bin/bash
echo "Enter a number"
while :
do read r
if [ $((r%3)) = 0 ] && [ $((r%5)) = 0 ]
then
echo "FIZZ! BUZZ!"
elif [ $((r%3)) = 0 ]
then
echo "FIZZ!"
elif [ $((r%5)) = 0 ]
then
echo "BUZZ!"
else
echo
fi
done
```

7.

```
:~$ ./7
```

```
#!/bin/bash
echo "Enter Directory name"
read r

echo "Number of files in the directory: "
cd $r
ls -p |grep -v / | wc -l
```