# Bash Scripting Output and Input

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## **Output and Error Redirection**

- The > notation is used to redirect stdout to a file
- 2> notation is used to redirect stderr
- &> is used to redirect both stdout and stderr

```
output error.sh
#!/bin/bash
echo ""
echo "First ls"
ls -l file1.txt file2.txt
touch file1.txt
echo ""
echo "Second ls"
ls -l file1.txt file2.txt
echo""
echo "Third ls"
ls -l file1.txt file2.txt > stdout.txt
echo ""
echo "Fourth ls"
ls -1 file1.txt file2.txt 2> stderr.txt
echo ""
echo "Fifth ls"
ls -l file1.txt file2.txt &> stdouterr.txt
echo ""
echo "Sixth ls"
ls -1 file1.txt file2.txt 2> /dev/null
```

## **Output and Error Redirection**

#### Output

```
First 1s
ls: file1.txt: No such file or directory
ls: file2.txt: No such file or directory

Second 1s
ls: file2.txt: No such file or directory
-rw-r--r-- 1 indranilsaha staff 0 Feb 14 23:41 file1.txt

Third 1s
ls: file2.txt: No such file or directory

Fourth 1s
-rw-r--r- 1 indranilsaha staff 0 Feb 14 23:41 file1.txt

Fifth 1s

Sixth 1s
-rw-r--r- 1 indranilsaha staff 0 Feb 14 23:41 file1.txt
```

## Input

```
input.sh
#!/bin/bash
# Ask the user for their name
echo "Hello, who am I talking to?"
read varname
echo "It is nice to meet you, $varname!"
# Ask for login details
read -p 'Username: ' uservar
read -sp 'Password: ' passvar
echo ""
echo "Thankyou $uservar!! We now have your login details."
# Demonstrate how read actually works
echo "What cars do you like?"
read car1 car2 car3
echo Your first car was: $car1
echo Your second car was: $car2
echo Your third car was: $car3
```

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