LAB3 Solution

Problem 1

Step 1: Create a new script "greet.sh"

Step 2: Add the following lines to the file:

```
# This script accepts the user's name and prints
# a message greeting the user

# Print the prompt message on screen
echo -n "Enter your name :"

# Wait for user to enter a name, and save the entered name into the variable 'name'
read name

# Print the welcome message followed by the name
echo "Welcome $name"
```

Step 3: Save the file.

Step 4: Add the 'execute' permission to 'greet.sh' for the owner.

```
chmod u+x greet.sh
```

Step 5: Execute the file from the command prompt using the command below.

```
bash greet.sh
```

Problem 2

Step 1: Edit a new script "greet.sh" add the shabang line to the script

`#! /bin/bash`

```
#! /bin/bash
# This script accepts the user's name and prints
# a message greeting the user

# Print the prompt message on screen
echo -n "Enter your name :"

# Wait for user to enter a name, and save the entered name into the variable 'name'
read name

# Print the welcome message followed by the name
echo "Welcome $name"
```

Step 2: Check the permissions of the script.

```
chmod +x greet.sh
```

Step 3: Execute the script.

```
./greet.sh
```

Problem 3

Step 1: Create a new file named 'greetnew.sh'.

Step 2: Add the following lines to the file:

```bash
#! /bin/bash

# This script accepts the user's name and prints
# a message greeting the user

# Print the prompt message on screen
echo -n "Enter your firstname :"

# Wait for user to enter a name, and save the entered name into the variable 'name'
read firstname

# Print the prompt message on screen
echo -n "Enter your lastname :"

# Wait for user to enter a name, and save the entered name into the variable 'name'
read lastname

# Print the welcome message followed by the name
echo "Hello $firstname $lastname."
```

Step 3: Save the file.

Step 4: Add the 'execute' permission to 'greetnew.sh' for the owner.

```
chmod u+x greetnew.sh
```

Step 5: Execute the file from the command prompt using the command below.

```
./greetnew.sh
```

Problem 4

Create a variable called 'color' and store the string 'light green' in it.
```
color='light green'
```

Problem 5

Display the list of all the files whose name starts with 'b' and ends with '.log' in the directory /var/log.
```
ls /var/log/b*.log
```

Problem 6

Display the count of all files whose name starts with 'c' in the /bin directory.
```
ls /bin/c* | wc -l
```

Problem 7

Display the value of variable 'color'.

```
echo $color
```

Problem 8

Store the value of the variable 'color' in a file 'color.txt'

```
echo $color > color.txt
```

Problem 9

Write a shell script named latest_warnings.sh that prints the latest 5 "**warnings**" from the /var/log/bootstrap.log file.

```
grep warning /var/log/bootstrap.log|tail -5
```