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Subject: Lab 2: Shell Scripting Questions
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Lab 2: Shell Scripting Questions

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In file redirection you can write new information to the file using the terminal. Two symbols serve this purpose >> and >. State how are they different.

When we use ">", the existing file contents gets erased and the new lines we provide is added inside the file. When we use ">>", the new lines are added at the bottom after all the existing contents that were already in the file.

What are the correct file descriptor numbers for standard input, standard output, and standard error in Unix-like systems?

- ☐ stdin - 1, stdout - 2, stderr - 0
- ☒ stdin - 0, stdout - 1, stderr - 2
- ☐ stdin - 0, stdout - 1, stderr - 3
- ☐ stdin - 1, stdout - 0, stderr - 2

Write a command using a pipeline that combines echo and grep to check for the presence of the word "success" in a string. The echo command should output the sentence "The operation was a success!", and the grep command should filter the output to only show lines containing the word "success". Provide the complete command line input you would use.

```
echo "The operation was a success!" | grep "success"
```

What does the HOME variable normally contain?

HOME is an environment variable and it contains the home directory of the current user.

Create a long running process by typing ping 127. 0. 0. 1. Suspend it with ctrl+Z and bring it to the foreground with fg. Terminate it with ctrl+C. Explain what happens here.

when we run "ping 127.0.0.1" command, it sends network request to the localhost basically, the pc im using is sending an echo request to itself and receives an echo reply. When we press ctrl+Z it pauses sending request, when we run the command "fg" it again continues to send network request to itself. Lastly, when we press ctrl+C it terminates the process completely.

Upload the screenshot of the commands and output of Activity 1 **[Check the instruction file]**

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t1 - IFTEKHAR AL MAHMUD.png

Paste the code for shell scripting task 1

```
echo "Enter three numbers: "
```

```
read n1 n2 n3
```

```
highest=$n1
```

```
lowest=$n1
```

```
if [ $n2 -gt $highest ]; then
```

```
    highest=$n2
```

```
fi
```

```
if [ $n3 -gt $highest ]; then
```

```
    highest=$n3
```

```
fi
```

```
if [ $n2 -lt $lowest ]; then
```

```
    lowest=$n2
```

```
fi
```

```
if [ $n3 -lt $lowest ]; then
```

```
    lowest=$n3
```

```
fi
```

```
echo "Hello"
```

```
echo "Highest: $highest"
```

```
echo "Lowest: $lowest"
```

Upload the screenshot containing your script and output of shell scripting task 1 **[Check the instruction file]**

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t2 - IFTEKHAR AL MAHMUD.png



t22 - IFTEKHAR AL MAHMUD.png

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