Linux SLA 2 BY A027 PR7BZ

Q.1 Write a shell script that takes a user's name as input and greets them.

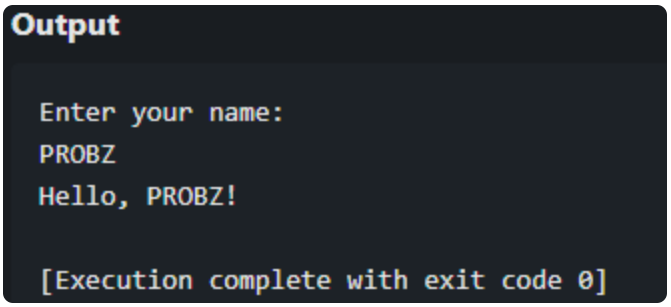
#answer

`terminal`

```
nano greet.sh
chmod +x greet.sh
./greet.sh
```

`nano editor`

```
#! /bin/bash
echo "Enter your name:"
read name
echo "Hello, $name!"
```



Q.2 Create a shell script that checks if a file exists in the current directory.

`Hint: if [ -e "$file" ]; then: This line starts an if statement. The condition [-e "$file"] checks if the file specified by the file variable exists. -e flag is used to check for file existence.`

#answer

`terminal`

```
touch ok.txt
nano file.sh
chmod +x check_file.sh
./check_file.sh
```

`nano editor`

```
#! /bin/bash
echo "Enter the file name:"
read file
if [ -e "$file" ]; then
    echo "File exists."
else
    echo "File does not exist."
fi
```

Output

```
Enter the file name:
ok.txt
File exists.

[Execution complete with exit code 0]
```

Q.3 Write a Shell Script for output a specified directory's size.

`Hint: use Du command`

#answer

`terminal`

```
chmod +x ok.sh
./ok.sh
```

`nano editor`

```
#! /bin/bash
echo "Enter directory name:"
read directory
du -sh "$directory"
```

Output

```
Enter directory name:
Documents
4.0K    Documents

[Execution complete with exit code 0]
```

Q.4 Write a Shell Bash Script for evaluating the status of a file/directory.

`Hint: if [ -e "$FILE" ]; then`

#answer

`terminal`

```
chmod +x check.sh
./check.sh
```

`nano editor`

```
#! /bin/bash
echo "Enter file or directory name:"
read item
if [ -e "$item" ]; then
    if [ -f "$item" ]; then
        echo "$item is a file."
    elif [ -d "$item" ]; then
        echo "$item is a directory."
    fi
else
    echo "$item does not exist."
fi
```

Output

```
Enter file or directory name:
pog.txt is a file.

[Execution complete with exit code 0]
```

Output

```
Enter file or directory name:
Music is a directory.

[Execution complete with exit code 0]
```

Q.5 Read 'n' and generate a pattern given below:

> 1
> 12

> 123
> 1234

`Hint: nested loop to print the given pattern. (while-do)`

#answer

`terminal`

```
chmod +x woo.sh
./woo.sh
```

`nano editor`

```
#! /bin/bash
echo "Enter the number of lines:"
read n
i=1
while [ $i -le $n ]
do
    j=1
    while [ $j -le $i ]
    do
        echo -n "$j"
        j=$((j+1))
    done
    echo ""
    i=$((i+1))
done
```

Output

```
Enter the number of lines:
7
1
12
123
1234
12345
123456
1234567

[Execution complete with exit code 0]
```