LAB 9

Q1.

```bash
#!/bin/bash
# Check if the script is provided with exactly one parameter
if [ "$#" -eq 1 ]; then
    # Assign the parameter to a variable
    name="$1"
    # Display the name on the screen
    echo "Hello, $name!"
else
    # Display an error message if the script is not provided with exactly one parameter
    echo "Usage: $0 <your_name>"
    exit 1  # Exit with an error code
fi
chmod +x name_display.sh   // Making file executable
./name_display.sh Taha  // Runnung script
```

Q2.

```bash
#!/bin/bash
# Check if the script is provided with the correct number of parameters
if [ "$#" -eq 4 ]; then
    # Display the values of built-in variables
    echo "Number of parameters: $#"
    echo "Script name: $0"
    echo "All parameters as a single string: $*"
else
    # Display an error message if the script is not provided with the correct number of parameters
    echo "Usage: $0 <param1> <param2> <param3> <param4>"
    echo "Please provide exactly 4 parameters."
    exit 1  # Exit with an error code
fi
chmod +x display_variables.sh //make it executable
```

./display_variables.sh Here We Gooo !

```
tahak007@tahak007-virtual-machine:~$ chmod +x display_variables.sh
chmod: cannot access 'display_variables.sh': No such file or directory
tahak007@tahak007-virtual-machine:~$ chmod +x display_var.sh
tahak007@tahak007-virtual-machine:~$ ./display_var.sh Here We Gooo !
Number of parameters: 4
Script name: ./display_var.sh
All parameters as a single string: Here We Gooo !
tahak007@tahak007-virtual-machine:~$
```

Q3.

#!/bin/bash

Display the value of the SHELL environment variable

echo "SHELL: $SHELL"

Display the value of the PWD environment variable

echo "PWD: $PWD"

```
tahak007@tahak007-virtual-machine:~$ touch display_env_var.sh
tahak007@tahak007-virtual-machine:~$ chmod +x display_env_var.sh
tahak007@tahak007-virtual-machine:~$ ./display_env_var.sh
SHELL: /bin/bash
PWD: /home/tahak007
tahak007@tahak007-virtual-machine:~$
```