

Day 4 Task:

- **Explain in your own words and examples, what is Shell Scripting for DevOps.**

Shell Scripting:

It is writing a set of instructions in a text file for your computer to follow automatically.

It's commonly used for tasks like automating repetitive processes, system administration, data processing, and more.

- **What is #!/bin/bash? can we write #!/bin/sh as well?**

#!/bin/bash or #!/bin/sh at the start of a script is a shebang line indicating the interpreter path. While #!/bin/bash specifies Bash, #!/bin/sh indicates the Bourne shell. Writing with #!/bin/sh ensures compatibility with systems having only the standard Bourne shell, while #!/bin/bash utilizes Bash's additional features.

- **Write a Shell Script which prints I will complete #90DaysOofDevOps challenge**

```
#!/bin/bash
```

```
# Using echo command to print the statement  
echo "I will complete #90DaysOfDevOps challenge"
```

- **Write a Shell Script to take user input, input from arguments and print the variables.**

Example 1:

Filename : sample.sh

Command to execute sample.sh : ./sample.sh Madhuri

```
#!/bin/bash
```

```
echo "Please enter your Age:" # Prompting the user to enter their age
```

```

read Age                # Reading the input age from the user
Firstargument=$1        # Storing the first argument provided when running the
script

if [ -z "$Age" ]; then  # Checking if the input age is not provided
    echo "Error: The input is not provided"
    exit 1              # Exiting the script with error status 1
fi

if [ "$Age" -lt 18 ]; then # Checking if the age is less than 18
    echo "$Firstargument is Minor"
else # If age is 18 or greater
    echo "$Firstargument is Major"
fi

```

Example 2:

Filename : check.sh
./check.sh HelloWorld

```
#!/bin/bash
```

```
# Take user input
echo "Enter your name:"
read name
```

```
# Take input from arguments
arg=$1
```

```
# Print variables
echo "User input: $name"
echo "Argument input: $arg"
```

- **Write an Example of If else in Shell Scripting by comparing 2 numbers**

```
#!/bin/bash
```

```
echo "Enter the first number:"  
read num1
```

```
echo "Enter the second number:"  
read num2
```

```
if [ $num1 -gt $num2 ]; then  
    echo "$num1 is greater than $num2"  
elif [ $num1 -lt $num2 ]; then  
    echo "$num2 is greater than $num1"  
else  
    echo "Both numbers are equal"  
fi
```