

Shell Scripting 2

Loops:

1.

[illegible]

```
root@DESKTOP-M3TSUJI:/home# vi loop1.sh
root@DESKTOP-M3TSUJI:/home# chmod +x loop1.sh
root@DESKTOP-M3TSUJI:/home# ./loop1.sh
Count: 1
Count: 2
Count: 3
Count: 4
Count: 5
Count: 6
Count: 7
Count: 8
Count: 9
Count: 10
Loop finished.
```

2.

```
#!/bin/bash

# Loop through a list of names
names=("Alice" "Bob" "Charlie" "Dave" "Emily")
for name in "${names[@]}"
do
    echo "Hello, $name!"
done
```

9,0-1

All

```
root@DESKTOP-M3TSUJI:/home# vi loop2.sh
root@DESKTOP-M3TSUJI:/home# chmod +x loop2.sh
root@DESKTOP-M3TSUJI:/home# ./loop2.sh
Hello, Alice!
Hello, Bob!
Hello, Charlie!
Hello, Dave!
Hello, Emily!
```

Arrays:

1.

```
#!/bin/bash

# Declare an array of fruits
fruits=("apple" "banana" "orange" "kiwi" "grape")

# Print entire array
echo "All fruits: ${fruits[@]}"

# length of the array
echo "Number of fruits: ${#fruits[@]}"

# first and last elements of the array
echo "First fruit: ${fruits[0]}"
echo "Last fruit: ${fruits[-1]}"

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```

```
root@DESKTOP-M3TSUJI:/home# vi array1.sh
root@DESKTOP-M3TSUJI:/home# chmod +x array1.sh
root@DESKTOP-M3TSUJI:/home# ./array1.sh
All fruits: apple banana orange kiwi grape
Number of fruits: 5
First fruit: apple
Last fruit: grape
root@DESKTOP-M3TSUJI:/home#
```

2.

```
#!/bin/bash

# Declare an array of colors
colors=("red" "green" "blue" "yellow" "purple")

# Loop through the array and print each element
echo "Looping through colors array:"
for color in "${colors[@]}"
do
    echo "I like $color"
done

# End of script

```

```
root@DESKTOP-M3TSUJI:/home# vi array2.sh
root@DESKTOP-M3TSUJI:/home# chmod +x array2.sh
root@DESKTOP-M3TSUJI:/home# ./array2.sh
Looping through colors array:
I like red
I like green
I like blue
I like yellow
I like purple
root@DESKTOP-M3TSUJI:/home#
```

Switch:

1.

```
#!/bin/bash

#Enter a number
echo "Enter a number between 1 and 5:"
read number

# Use a switch statement
case $number in
  1)
    echo "The number is one."
    ;;
  2)
    echo "The number is two."
    ;;
  3)
    echo "The number is three."
    ;;
  4)
    echo "The number is four."
    ;;
  5)
    echo "The number is five."
    ;;
  *)
    echo "Invalid"
    ;;
esac

:wq
```

```
root@DESKTOP-M3TSUJI:/home# vi switch1.sh
root@DESKTOP-M3TSUJI:/home# chmod +x switch1.sh
root@DESKTOP-M3TSUJI:/home# ./switch.sh
bash: ./switch.sh: No such file or directory
root@DESKTOP-M3TSUJI:/home# ./switch1.sh
Enter a number between 1 and 5:
5
The number is five.
root@DESKTOP-M3TSUJI:/home# ./switch1.sh
Enter a number between 1 and 5:
9
Invalid
root@DESKTOP-M3TSUJI:/home# |
```

2.

```
#!/bin/bash

# Enter a day of the week
echo "Enter a day :"
read day

# Use a switch statement
case $day in
    Monday)
        echo "Hello, another week."
        ;;
    Tuesday|Wednesday|Thursday)
        echo "Middle of the week."
        ;;
    Friday)
        echo "Weekend is almost there!"
        ;;
    Saturday|Sunday)
        echo "Hey, weekend is here!"
        ;;
    *)
        echo "Invalid"
        ;;
esac

~
~
~
:wq|
```

```
root@DESKTOP-M3TSUJI:/home# vi switch2.sh
root@DESKTOP-M3TSUJI:/home# chmod +x switch2.sh
root@DESKTOP-M3TSUJI:/home# ./switch2.sh
Enter a day :
Monday
Hello, another week.
root@DESKTOP-M3TSUJI:/home# ./switch2.sh
Enter a day :
gawffb
Invalid
root@DESKTOP-M3TSUJI:/home# ./switch2.sh
Enter a day :
friday
Invalid
root@DESKTOP-M3TSUJI:/home# ./switch2.sh
Enter a day :
Friday
Weekend is almost there!
root@DESKTOP-M3TSUJI:/home# ./switch2.sh
Enter a day :
Tuesday
Middle of the week.
root@DESKTOP-M3TSUJI:/home# |
```