19 February 2025 15:30

Checking of conditional and looping statements

Arrays:

Working on the data structure with arrays and retrieving the data from the file.

- 1. vi array.sh Creates the file array.sh in the working directory.
- 2. chmod 777 array.sh Allows all the permissions.
- 3. /array.sh Executes the file.

```
sandy@sandy:/mnt/e/test$ touch array.sh
sandy@sandy:/mnt/e/test$ vim array.sh
sandy@sandy:/mnt/e/test$ cat array.sh
a[0]="Sindhuja"
a[1]="ABCDE"
a[2]="ahdhj"
echo "${a[0]}"
echo "${a[1]}"
echo "${a[2]}"
sandy@sandy:/mnt/e/test$ ./array.sh
Sindhuja
ABCDE
ahdhj
```

If elif else:

```
sandy@sandy:/mnt/e/test$ cat test1.sh
time=$(date +%H)
echo $time
if [ $time -lt 12 ];then
    message="Good morning user"
elif [ $time -lt 18 ];then
    message="Good afternoon user"
else
    message="Good evening user"
fi
echo "$message $time"
sandy@sandy:/mnt/e/test$ ./test1.sh
19
Good evening user 19
```

More

```
sandy@sandy:/mnt/e/test$ vi code.sh
sandy@sandy:/mnt/e/test$ ./code.sh
Customer is eligible to do transaction
Savings account
No description
```

More:

Taking user input with a timeout of 5 seconds

```
sandy@sandy:/mnt/e/test$ cat new1.sh
read -t 5 -p "quick 5 sec" pin
echo "Enter your name"
read name
echo "$name"
read -p " Enter account number and password:" acn password
echo $acn
echo $password
#echo "enter senstive password"
read -s -p " Enter password"
sandy@sandy:/mnt/e/test$ ./new1.sh
quick 5 sec
Enter your name
sandy
sandy
Enter account number and password:1111
1111
```

More: case keyword

```
More: case keyword

Enter passwordsandy@sandy:/mnt/e/test$ cat case.sh
read -p "Enter selection [1-3]" selection

case $selection in

1) accountype="checking"; echo " you have sleected checking";;

2) accountype="saving"; echo "you have selected saving";;

3) accountype="current"; echo " you ahev selected curemt";;

*) accountype="random"; echo "ramdam selection";;
esac
sandy@sandy:/mnt/e/test$ ./case.sh
Enter selection [1-3]1
you have sleected checking
sandy@sandy:/mnt/e/test$ ./case.sh
Enter selection [1-3]2
you have selected saving
sandy@sandy:/mnt/e/test$ ./case.sh
Enter selection [1-3]3
you ahev selected curemt
sandy@sandy:/mnt/e/test$
```

Afternoon activity: Building simple calculator

```
sandy@sandy: /mnt/e/test \times + \vee
             echo "e
read a
read b
             read ch
            case $ch in

1) res=$((a + b));;

2) res=$((a - b));;

3) res=$((a * b));;

4) if [$b -eq 0]; theh

echo "cannot divide by zero"
                                          res='echo "scale=2: $a / $b" |bc'
           esac
echo "result of $a and $b is $res"
read -p "Press any key to continue" temp
```

```
enter 2 numbers:
Enter choice:
1.Addition
2.Subtraction
3.Multiplication
4.Division
5.Modulus
6.Division(float)
7.Exit
result of 2 and 3 is 5
Press any key to continue
```

```
enter 2 numbers:
3
1
Enter choice:
1.Addition
2.Subtraction
3.Multiplication
4.Division
5.Modulus
6.Division(float)
7.Exit
4
result of 3 and 1 is 3
Press any key to continue
```

```
enter 2 numbers:
7
5
Enter choice:
1.Addition
2.Subtraction
3.Multiplication
4.Division
5.Modulus
6.Division(float)
7.Exit
6
result of 7 and 5 is 1.40
Press any key to continue
```

```
enter 2 numbers:
6
4
Enter choice:
1.Addition
2.Subtraction
3.Multiplication
4.Division
5.Modulus
6.Division(float)
7.Exit
7
sandy@sandy:/mnt/e/test$
```