Shell Programming Lab

TITLE: Working with getopts

Experiment 15

SUBMITTED BY ---   SUBMITTED TO-

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B.C.A I.O.T (III)THIRD YEAR (2020-23)

1. Create a bash script to get the command line argument and print it. Use $0,$1,$2,$3,$@,$* by passing suitable command line arguments.

```
┌──(ashish500086363㉿kali)-[~/AA]
└─$ cat get1.sh
#! /bin/bash
echo "The File Name is: $0"
echo "The First argument is: $1"
echo "The second argument is: $2"
echo "The Third argument is: $3"
echo "All argument Passed: $@"
```

```
┌──(ashish500086363㉿kali)-[~/AA]
└─$ bash get1.sh Ashish Anurag Aman
The File Name is: get1.sh
The First argument is: Ashish
The second argument is: Anurag
The Third argument is: Aman
All argument Passed: Ashish Anurag Aman
```

2. Create a bash script to get the command line argument with options using case block.

```
┌──(ashish500086363㉿kali)-[~/AA]
└─$ cat get2.sh
#!/ bin/bash

while getopts ":abc" option;
do
        case $option in
                a)
                        echo received -a
                ;;
                b)
                        echo received -b
                ;;
                c)
                        echo received -c
                ;;
                *)
                        echo "invalid option $OPTARAG"
                ;;
        esac
done
```

```
┌──(ashish500086363㉿kali)-[~/AA]
└─$ bash get2.sh -abc
received -a
received -b
received -c
```

```
┌──(ashish500086363㉿kali)-[~/AA]
└─$ bash get2.sh -ab
received -a
received -b
```

```
┌──(ashish500086363㉿kali)-[~/AA]
└─$ bash get2.sh -a
received -a
```

3. Create a bash script Parse input arguments with if condition and while loop.

```
┌──(ashish500086363@kali)-[~/AA]
└─$ cat get3.sh
#!/bin/bash
while getopts 'abc:h' opt;
do
        if [ $opt = "a" ]
        then
                echo "Pressing Option 'a'"
        elif [ $opt = "b" ]
        then
                echo "Pressing 'b'"
        fi
done

┌──(ashish500086363@kali)-[~/AA]
└─$ bash get3.sh -ab
Pressing Option 'a'
Pressing 'b'

┌──(ashish500086363@kali)-[~/AA]
└─$ bash get3.sh -a
Pressing Option 'a'

┌──(ashish500086363@kali)-[~/AA]
└─$ 
```