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Subject Title: Operating Systems Lab	
EXPERIMENT No: 6	
TITLE: case ... esac Statements	DoP: 18-03-2024

Aim: Implement shell script to demonstrate **case ... esac** statements.

Learning Outcome: 1. To understand the **case ... esac** statements
2. To demonstrate shell script to implement **case ... esac** statements using Linux Commands

Hardware/Software:

This experiment is performed using Ubuntu OS in a virtualized environment within Windows 11. The software used is:

- VMware Workstation 17 Player (Free Virtualization Tool)
- Ubuntu 22.04.1 LTS ISO file
- VMware Tools installed on the virtual machine

Algorithm:

Q1)-

1. Take input of a letter.
2. Put the switch case with conditions for a, e, i, o ,u.
3. Else the letter will be a consonant.

Q2)-

1. Take a number as an input from the user .
2. Check the condition where it compares the number to each and every digit of the input number.
3. If it doesn't fit in any condition, then the number is greater than 999.

PROGRAM:-

```
1 #!/bin/sh
2
3 echo "Enter the vowel: "
4 read letter
5 case $letter in
6     "a" | "A")
7         echo "It is a vowel."
8         ;;
9     "e" | "E")
10        echo "It is a vowel."
11        ;;
12    "i" | "I")
13        echo "It is a vowel."
14        ;;
15    "o" | "O")
16        echo " It is a vowel."
17        ;;
18    "u" | "U")
19        echo " It is a vowel."
20        ;;
21    *)
22        echo "It is a consonant."
23        ;;
24 esac
25
26
27 echo "Enter the number: "
28 read number
29 case $number in
30     [0-9])
31         echo "Entered number $number is a single digit number."
32         ;;
33
34     [1-9][0-9])
35         echo "Entered number $number is a double digit number"
36         ;;
37
38     [1-9][0-9][0-9])
39         echo "Entered number $number is a triple digit number."
40         ;;
41
42     *)
43         echo "The number entered is greater than 999."
44         ;;
45 esac
```

Screenshots: (output)

```
student@ubuntu:~/priyanka$ gedit assing6.sh
student@ubuntu:~/priyanka$ bash assing6.sh
Enter the vowel:
r
It is a consonant.
Enter the number:
34
Entered number 34 is a double digit number
student@ubuntu:~/priyanka$ bash assing6.sh
Enter the vowel:
o
It is a vowel.
Enter the number:
4567
The number entered is greater than 999.
student@ubuntu:~/priyanka$ bash assing6.sh
Enter the vowel:
q
It is a consonant.
Enter the number:
```

```
student@ubuntu:~/priyanka$ gedit assing6.sh
student@ubuntu:~/priyanka$ bash assing6.sh
Enter the vowel:
r
It is a consonant.
Enter the number:
34
Entered number 34 is a double digit number
student@ubuntu:~/priyanka$ bash assing6.sh
Enter the vowel:
o
It is a vowel.
Enter the number:
4567
The number entered is greater than 999.
student@ubuntu:~/priyanka$ bash assing6.sh
Enter the vowel:
q
It is a consonant.
Enter the number:
651
Entered number 651 is a triple digit number.
student@ubuntu:~/priyanka$
```

Conclusion:

Hence, we learned how to use case...esac that is using switch programs in linux system using shell commands.

Assessment Schemes:

