

# SOFTWARE MANAGEMENT

```
show_menu()
{
echo " Please select option need to perform ?"
echo "Select 1 for install the software"
echo "Select 2 for remove software"
echo "Select 3 for upgrade software "
}
```

```
install_software()
{
read -p " Enter software name to install:"
software
yum install -y $software
echo "$software installed successfully."
}
```

```
remove_software()
{
read -p " Enter software to remove :" software
yum remove -y $software
echo " $software removed successfully."
}
```

```
upgrade_software()
{
read -p "Enter software to upgrade:" software
yum upgrade -y $software
echo "$software upgraded successfully."
}
```

```
while true
do
    show_menu
    read -p " Enter option to perform :" option
    if [[ $option == "1" ]]; then
        install_software
    elif [[ $option == "2" ]]; then
        remove_software
    elif [[ $option == "3" ]]; then
        upgrade_software
    elif [[ $option == "exit" ]]; then
        exit 0
    else
        echo "Invalid option."
    fi
done
```

## RESOURCE MANAGEMENT

```
show_menu()
{
echo "Please select option need to
perform?"
echo "Select 1 to get CPU Utilization"
echo "Select 2 to get Memory utilization"
echo "Select 3 to get disk Utilization"
echo " Select 4 to get uptime of this server"
echo "Select 5 to terminated the process"
echo "Select 6 to get current running
process"
echo "Select 7 to get IP Address"
echo "select 8 to get port details"
}

cpu()
{
echo "please find CPU Utilization for this
server"
top -b -n1 | grep -i "%Cpu"
}
```

```
memory()
{
echo "please find the Memory Utilization"
free -h
}

disk()
{
echo "Please find the Disk Utilization"
df -h
}

servertime()
{
echo "Please find Server uptime details"
uptime
}

terminate()
{
read -p "Enter process id to kill" kill
echo " $kill process id successfully killed."
}
```

```
process()
{
echo "Please find the current
process id "
ps
}

machinename()
{
echo "Please find the IP Address"
hostname -I
}

port()
{
echo "Please find the port details"
netstat -tulpn
}
```

# CONT.,

```
while true
do
```

```
    show_menu
```

```
    read -p " Enter option to perform :"
```

```
    option
```

```
    if [[ $option == "1" ]]; then
```

```
        cpu
```

```
    elif [[ $option == "2" ]]; then
```

```
        memory
```

```
    elif [[ $option == "3" ]]; then
```

```
        disk
```

```
    elif [[ $option == "4" ]]; then
```

```
        servertime
```

```
    elif [[ $option == "5" ]]; then
```

```
        terminate
```

```
    elif [[ $option == "6" ]]; then
```

```
        process
```

```
    elif [[ $option == "7" ]]; then
```

```
        machinename
```

```
    elif [[ $option == "8" ]]; then
```

```
        port
```

```
    elif [[ $option == "exit" ]]; then
```

```
        exit 0
```

```
    else
```

```
        echo "Invalid option."
```

```
    fi
```

```
done
```