DAY 10

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
```

SERVICE MANAGEMENT

```
show_menu()
{
echo " Please select option need to perform ?"
echo "Select 1 for start the service"
echo "Select 2 for restart the service"
echo "Select 3 for status check"
}

start_service()
{
read -p " Enter service name to start :" service
systemctl start $service
systemctl status $service | grep Active | cut -d ":" -f2 | cut -d " " -f1,2,3
}

restart_service()
{
read -p " Enter service name to restart :" service
systemctl restart $service
systemctl status $service | grep Active | cut -d ":" -f2 | cut -d " " -f1,2,3
}

status_service()
{
read -p "Enter service name to check status :" service
systemctl status $service
}

while true
do
show_menu
read -p " Enter option to perform :" option
if [[ $option == "1" ]]; then
start_service
elif [[ $option == "2" ]]; then
restart_service
elif [[ $option == "3" ]]; then
status_service
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 -tual
}
```

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
```