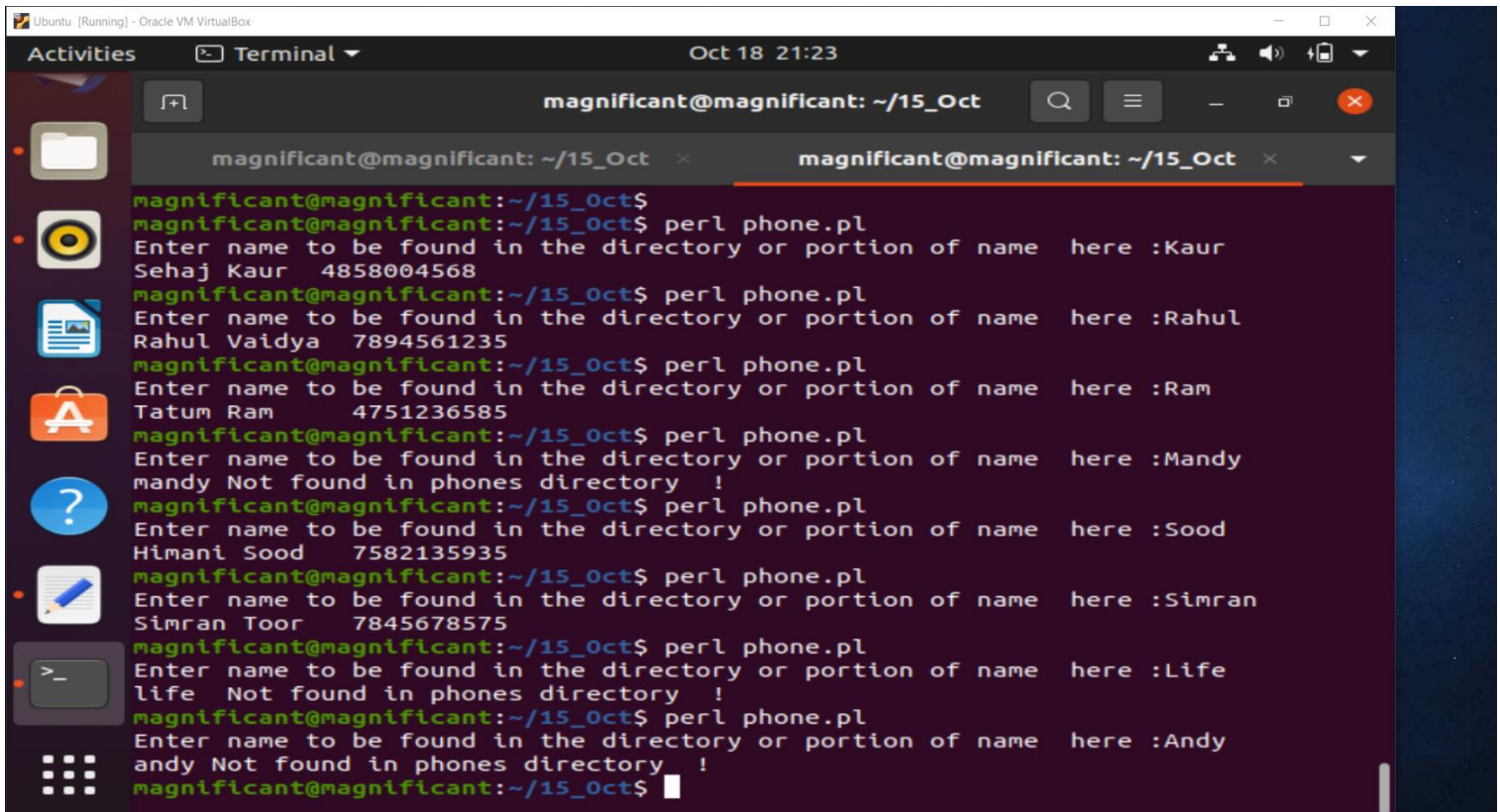## Output

Output of the code is as follows :