

Lab sheet 3

OBJECT: TO TEST A SIMPLE DISEASE DIAGNOSIS SYSTEM – A CASE STUDY

go :-

```
write('What is the name of Patient?'),
read(Patient),nl,
hypo(Patient, Disease),
write(Patient),write(' probably has '),write(Disease),nl.
```

go:-

```
write('Sorry I am unable to diagnose the Disease. '),nl.
```

hypo(Patient,flu):-

```
sym(Patient,fever),
sym(Patient,cough).
```

hypo(Patient,headche):-

```
sym(Patient,bodypain).
```

sym(Patient,fever):-

```
write(' Does '),write(Patient),write(' has fever (y/n)?'),
res(R),
R='y'.
```

sym(Patient,cough):-

```
write(' Does '),write(Patient),write(' has cough (y/n)?'),
res(R),
R='y'.
```

sym(Patient,bodypain):-

```
write(' Does '),write(Patient),write(' has bodypain (y/n)?'),
res(R),
R='y'.
```

res(R):-

```
read(R),nl.
```

Goal:

1. Apply a loop in the above given code so that it will ask, “Do you want to continue? (Y/ N)” and then act accordingly. (*Hint: make a predicate 'again/0' for doing above task*).
2. Name of few countries with population is given, define a general rule that Print the name of countries having population greater than 10 million.

```
country(england, 3e7). country(france, 2.3e7). country(germany,1.6e7). country(denmark,2.4e6).
country(canada,7.3e6).
```