

WALCHAND COLLEGE OF ENGINEERING, SANGLI



Department of Information Technology

IT PRACTICES LAB1 (6IT372)

Academic Year: 2023-24

Term: Semester-2

Class: T.Y. I.T.

Batch : T3

Name:

Kamble Shreyash Sambhaji

PRN.No:

21610070

Certificate



This is to certify that

Mr. Kamble Shreyash Sambhaji (21610070)

Of

T.Y. B.Tech (IT) class has completed experiments satisfactorily in IT
PRACTICES LAB1 (6IT372)during the

Year 2023-24

Dr. R. R. Rathod
COURSE TEACHER
& HOD

Code :

```
assembly(computer, processor, 1).
assembly(computer, memory, 2).
assembly(computer, storage, 1).
assembly(computer, peripherals, 1).

assembly(processor, cpu, 1).
assembly(processor, cooler, 1).
assembly(processor, thermal_paste, 1).

assembly(memory, ram, 4).
assembly(memory, cache, 1).
assembly(memory, controller, 1).

assembly(storage, hdd, 1).
assembly(storage, ssd, 1).
assembly(storage, optical_drive, 1).

assembly(peripherals, monitor, 1).
assembly(peripherals, keyboard, 1).
assembly(peripherals, mouse, 1).
```

% Components relationship

```
components(Part, Subpart, Quantity) :- assembly(Part, Subpart, Quantity).
components(Part, Subpart, Quantity) :- assembly(Part, Intermediate, Qty1),
    components(Intermediate, Subpart, Qty2),
    Quantity is Qty1 * Qty2.
```

Output :

```
components(computer, Subpart ,Quantity).
Quantity = 1,
Subpart = processor
Quantity = 2,
Subpart = memory
Quantity = 1,
Subpart = storage
Quantity = 1,
Subpart = peripherals
Quantity = 1,
Subpart = cpu
Quantity = 1,
Subpart = cooler
Quantity = 1,
Subpart = thermal_paste
Quantity = 8,
Subpart = ram
Quantity = 2,
Subpart = cache
Quantity = 2,
Subpart = controller
Quantity = 1,
Subpart = hdd
Quantity = 1,
Subpart = ssd
Quantity = 1,
Subpart = optical_drive
Quantity = 1,
Subpart = monitor
Quantity = 1,
Subpart = keyboard
Quantity = 1
?- components(computer, Subpart ,Quantity).
```

```
components(memory, Subpart ,Quantity).
Quantity = 4,
Subpart = ram
Quantity = 1,
Subpart = cache
Quantity = 1,
Subpart = controller
?- components(memory, Subpart ,Quantity).
```

```
assembly(computer, Subpart ,Quantity).
Quantity = 1,
Subpart = processor
Quantity = 2,
Subpart = memory
Quantity = 1,
Subpart = storage
Quantity = 1,
Subpart = peripherals
?- assembly(computer, Subpart ,Quantity).
```

```
assembly(storage, mouse ,Quantity).
false
?- assembly(storage, mouse ,Quantity).
```