

# Lab Assignment 1

# Task1

Build an Internet Shopping Agent that allows customers to search many online retailers and buy at the lowest price.

- Environment: Website, Customers, retailers
- Percept: User demand (Product, Price range, brand), Feedback
- Action: List of products, suggestions

Percept Sequence	Action
<i>(Price, higher)</i>	<i>Search in range / show List</i>
<i>(Price, lower)</i>	<i>Search in range / show List</i>
<i>(Price, higher)</i>	<i>Not found / notification for another range</i>
<i>(Price, lower)</i>	<i>Not found / notification for another range</i>
<i>(Brand, found)</i>	<i>Show the List</i>
<i>(Brand, not found)</i>	<i>Notification for another brand</i>

# Task 2

Build a simple reflex agent for home automation.

- (i) Enabling Thermostat
- (ii) Enabling lamps

# Task 3

Build an alarm clock :

Function: alarm()

- Set the alarm date and time (recursive)
- Get the actual date and time
- Compare the actual date & time with set date & time
- Trigger the alarm

The screenshot shows a web-based alarm clock interface. At the top, there are three input fields labeled 'Hour', 'Min', and 'Sec'. The 'Hour' field contains '19', 'Min' contains '25', and 'Sec' contains '59'. Below these fields is a button labeled 'Set Alarm'. A red error message, 'Enter time in 24 hour format!', is displayed in a black box at the bottom of the interface. A faint 'DataCamp' watermark is visible in the background.

When to wake you up	Hour	Min	Sec
	19	25	59

Set Alarm

Enter time in 24 hour format!

Hint:

```
current_time = datetime.datetime.now()
now = current_time.strftime("%H:%M:%S")
set_alarm_timer = f"{hour.get()}:{min.get()}:{sec.get()}"
if now == set_alarm_timer:
    print("Time to Wake up")
    winsound.PlaySound("sound.wav",winsound.SND_ASYNC)
    break
```