Assignment No. 1

1) For each of foll activities give peas description of task in terms of property.

a) Playing Tennis match :-

- Performance : Winning points
- Environment : Tennis Court, opponent
- Actuators : Arms, legs
- Sensors : Eyes, ears

b) Performing High jump :-

- Performance : Height cleared
- Environment : Track.
- Actuators : Legs, arms
- Sensors :- Eyes, muscles

c) College selection for Engineering.
- performance :- Best ranking, fees, placement
- Environment :- online, databases, colleges
- sensors :- User preference, rating
- Actuators :- Web preference, rating

2) Illustrate real-time example for you kinds of agents

→ a) Simple reflex agent :- Acts based on current precepts
    (EX :- Thermostat)

representation of World

EX :- self - driving Car

c] Goal Based Agent :-

choses actions based on desired goals

EX :- Pathfinding AI

I] Utility Based Agent :-

choose optimal actions for maximum benefit

(EX :- stock trading bot)

3] Explain how component of agent work with suitable example.

a] Sensors :-

sensors are used to collect information

EX . A robot's camera sees a wall

b] Actuators :- Actuators, performs action

EX :- Robot wheels moves or stop

c] Preception :- It Understands the situation

EX :- Robot knows these is a wall ahead

d] Decision making :- It choose what todo

EX :- Robot decides to turn - left.