**Exercise 6**

**Q 1**: In the simple server

server(State) -> receive

{request,Return\_PID} ->

io:format("SERVER ~w: Client request received from ~w~n", [self(), Return\_PID]),

NewState = State + 1,

Return\_PID ! {hit\_count,NewState}, server(NewState)

end.

What does the following line do?

Return\_PID ! {hit\_count,NewState},

**Answer:**It sends the requesting process (i.e. Return\_PID) the hit\_count and the New State which is an integer which states the STATE count of the server

**Question 2**: In the simple client

client(Server\_Address) ->

Server\_Address ! {request, self()}, receive {hit\_count,Number} -> io:format("CLIENT ~w: Hit count was ~w~n",[self(), Number]) end.

What does self() do and why is it used in this example?

**Answer:**It is used to pass the process id (PID) of the current process i.e. process requesting the server and here, it is also used to display the current process id.

**Question 3**: In the simple start() function what does the following line do? spawn(simple,client,[Server\_PID]).

**Answer:**Here, spawn/3 is used to spawn a procees which calls the client method inside simple module with parameter as [Server\_PID].

It is of the format spawn(module,method,[arguments]).