**Assignment 1**

1. Observe at least five sites on India Travel and Tourism
2. Observe the working of them. Make a comparative study. Write the similarities and differences between them.
3. Write a new set of requirements for a similar project illustrating all the features that you would like to include in it.
4. Prepare a SRS document for **“Hotel Management System”** as per the IEEE template.

**Assignment 2**

**Case Study-II**

The Real Estate Multiple Listing Service system supplies information that local real estate agents use to help them sell houses to their customers. During the month, agents list houses for sale (listings) by contracting with homeowners. The agent works for a real estate office, which sends information on the listing to the multiple listing services. Therefore, any agent in the community can get information on the listing.

Information on a listing includes the address, year built, square feet, number of bedrooms, number of bathrooms, owner name, owner phone number, asking price, and status code. At any time during the month, an agent might directly request information on listings that match customer requirements, so the agent contacts the multiple listing services with the request. Information on the house, on the agent who listed the house, and on the real estate office the agent works for is provided. For example, an agent might want to call the listing agent to ask additional questions or call the homeowner directly to make an appointment to show the house. Twice each month (on the 15th and 30th), the multiple listing service produces a listing book that contains information on all listings. These books are sent to all of the real estate agents. Many real estate agents want the books (which are easier to flip through), so they are provided even though the information is often out of date. Sometimes agents and owners decide to change information about a listing, such as reducing the price, correcting previous information on the house, or indicating that the house is sold. The real estate office sends in these change requests to the multiple listing service when the agent asks the office to do so.

1. Draw Use Case Diagram for above case study on rational rose
2. Draw Sequence Diagram for above case study on rational rose
3. Draw Activity Diagram for above case study on rational rose

**Assignment 3**

**/\* Linear Search in C\*/**

#include<stdio.h>

int main(){

int a[10],i,n,m,c=0;

printf("Enter the size of an array: ");

scanf("%d",&n);

printf("Enter the elements of the array: ");

for(i=0;i<=n-1;i++){

scanf("%d",&a[i]);

}

printf("Enter the number to be search: ");

scanf("%d",&m);

for(i=0;i<=n-1;i++){

if(a[i]==m){

c=1;

break;

}

}

if(c==0)

printf("The number is not in the list");

else

printf("The number is found");

return 0;

}

1. Generate test cases for above code using boundary value analysis.
2. Draw the CFG for above code, derive all independent paths and calculate the cyclomatic complexity.