# Assignment No. - 2

## Aim :

Assignment on Heuristic Search Technique. Implement Best-First Search (Best-Solution but not always Optimal).

## Objectives :

To study heuristic search technique.

## Theory :

the idea of best first search is to use an evalution function to decide which adjacent is most promising and then explore.

Best-First search falls under the category of heuristic of search or informed search.

## Implementation of Best First Search :

Use a priority queue or heap to store the costs of nodes that have the lowest evolution function value.

// Pseudocode for best first search

Best-First-Search ( Graph g, Node, start)
  1.) Create an empty Priority Queue.
     Priority Queue pq;