The Source Code of the Function

(with # comments)

```
def minimum_cost_path(setf, start_vertex, end_vertex):

"""

A function that computes the minimum cost malk and the reversed path from a vertex to another using Dijkstra's algorithm
:param end_vertex: a vertex (integer) that represents the start paint
:param end_vertex: a vertex (integer) that represents the object cost from the start_vertex to the end_vertex
reverse_path - a list minimum represents the path in reverse corder, from the end_vertex to the start_vertex

if start_vertex not in self.parse_vertices() or end_vertex not in self.parse_vertices():
    raise GraphException("One of the given value is not a vertice. Or maybe both.")

if self.get_degree_in(start_vertex) == 0 and self.get_degree_out(start_vertex) == 0:
    raise GraphException("There is no path between the vertices.")

if self.get_degree_in(end_vertex) == 0 and self.get_degree_out(end_vertex) == 0:
    raise GraphException("There is no path between the vertices.")

priority_queue = PriorityQueue()
dist = dict() # a dictionary that has as the keys the vertices of the graph and as values the lowest cost malks from the start vertex to the key
    prev = dict() # a dictionary that has as the keys the vertices of the graph and as values the predecessor of the key in the lowest cost walks from
    # the start vertex to the key
    priority_queue.enqueue((end_vertex, 0)) # me put the starting in the queue mith priority 0

# me initialize for each vertex the distance as infinity and the predecessor as -1
    for vertex in self_parse_vertices():
        dist(vertex) = inf
        prev(vertex) = 0

found = Folse

# me start iterating
```