Program Assessment Rubrics

Lab Group: FS2

Names of Members: Wu Sibing, Wu Ziang, and Xiao Yang

Assessment Criteria		Description/Comment	Marks
1	Pattern Recognition (10)	generate_xml(): Write the data in local lists, tuples and dictionaries to the xml file based on its category. dataset.xml: Data is categorized under various tags and stored in nested elements. Built-in function find() and findall() functions are used to retrieve the data.	
2	Abstraction (10)	multiple_choice(title, label, *args, _label=None): Display several choices on the window and a confirm button to submit the choice. The function is called by serval functions, for example get_food().	
3	Decomposition (10)	call_distance(): Prompt user to input location and find the straight-line distances, walking or traveling time to canteens. The functions is decomposed into get_user_location() and sort_distance(user_location). While the former calls enter_coordinate() and mouse_click(), the latter calls straight_line(x,y) and transport(x, y, type).	
4	Algorithm Design (20)	transport(x, y, type): Find the nearest point to (x,y) on the weighted undirected graph. Take that nearest point as source and use Dijkstra algorithm to find the shortest time to canteens. listsort(list, index): Use Merge Sort algorithm to sort the elements, which are lists, based on the element at the index.	
5	User Interface Design (10)		
6	System Complexity (10)		
7	Teamwork and Presentation (10)		
8	Individual Oral Assessment (20)		
Others (Optional)			

Date of Assessment:_____ By:_____