

COMPUTER PROGRAMMING GROUP ASSIGNMENT#1

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ALGORITHM#1:

FINDING THE SHORTEST PATH:

STEP 1:Start

STEP 2:Create a function called the shortestpath which takes the starting and destination locations as input and stores it

STEP 3:Initialize a list called visited to keep the record of visited locations

STEP 4:Initialize a dictionary called PREV to store the previous locations in the shortest path from each starting location to end location

STEP 5: Once the destination is reached ,backtrack from the destination location to starting location using the PREV to find shortest path

STEP 6: Return the shortest path and the total distance

STEP 7:End

ALGORITHM #2:

SORTING A LIST OF NUMBER

STEP 1: Start

STEP 2: Declare integer i and initialize it with 1

STEP 3: Apply loop in it and also apply increment operator

Apply loop such as do while loop and the condition of do while should be :

$i \leq 100$

STEP 4: Stop

ALGORITHM #3:

FABONACCI SERIES

STEP 1: Start

STEP 2: Declare variables first_term ,second_term ,last_term and temp

STEP 3: Initialize variable first_term with 0 and second_term with 1 and last_term with n

STEP 4: Display first term and second term

STEP 5: Repeat the steps until second term $\leq n$

5.1: temp=second_term

5.2: second_term= second_term +first_term

5.3: first_term = temp

5.4: Display second term

STEP 6: Stop

ALGORITHM#4

ALGORITHM FOR INVENTORY MANAGEMENT

STEP 1: Start

STEP 2: Define the following variables

Stock = The amount of inventory currently in stock

Threshold = The minimum amount of inventory that should be in stock before placing a new order

Reorder quantity = The amount of inventory to order when the stock level falls below the threshold

STEP 3: Monitor the stock level

STEP 4: When the stock level falls below the threshold ,place a new order

STEP 5: Receive the new order and update the stock level

STEP 6: Repeat the step 2-4

STEP 7: Stop

GITHUB REPOSITORY S LINK:

<https://github.com/msaim342/saim-project.git>

