RESPONSE SHEET

GENETIC ALGORITHM TASK

- Ordered by markkerberos
- Delivery date 22 Dec, 13:29
- Completed Date -> 20 Dec, 20:13
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- Order number FO511E45C8D83

Requirements

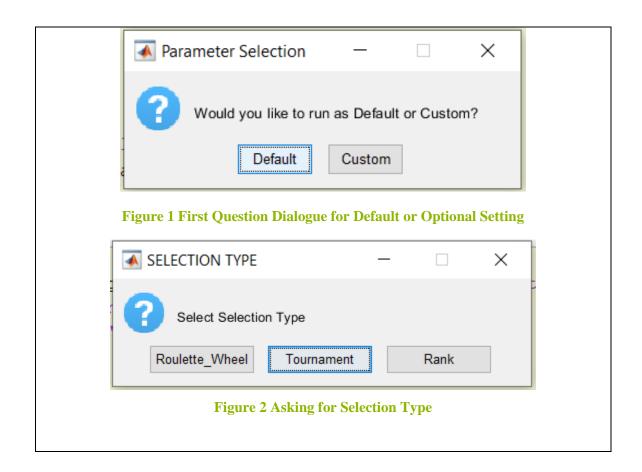
- Q1.Implement Genetic Algorithm except Matlab Bulitin GA function
- Q2. No need to change *simulate_ant.m*
- Q3.make use of appropriate crossover and mutation operators
- Q4.Implementation should be done in Matlab 2020a
- Q5. The codes should be run by pressing MATLAB RUN bottom
- Q6. The output should be two plots
- Q7. At the beginning, the code should ask the user for using a default setting
- Q8.If the user chooses the default setting, then the code should output 1
- Q9.If the user chooses the optional setting, these should be asked from user:
 - a. Selection.
 - b. Cross-over
 - c. Mutation
 - d. Generations
- Q10. Code should run for around 10 seconds

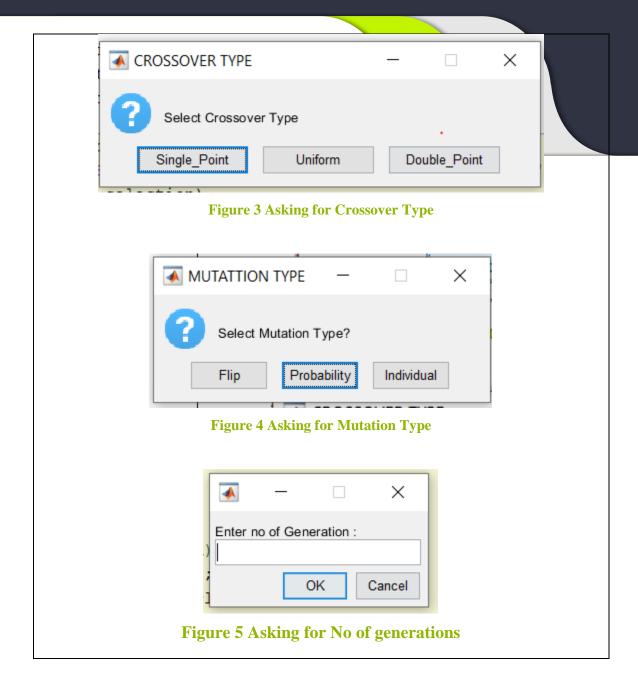
Response

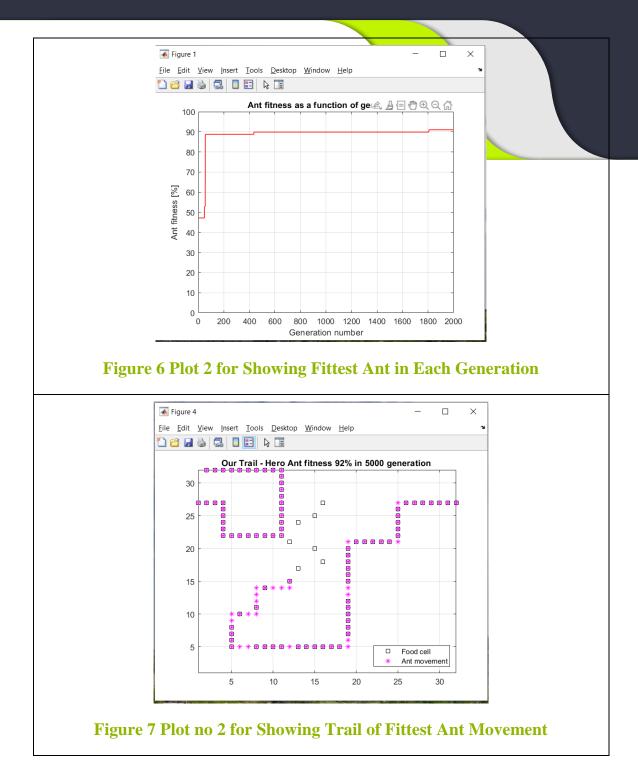
- A1.Genetic Algorithm is implemented.
- A2.No change in simulate_ant.m.
- A3. Appropriate Crossover and mutation operators are used.
- A4.Done in Matlab 2020a.
- A5. Codes are running by Press Run only.
- A6. Output is two plots (one additional plot is also shown for mori-trail too).
- A7. Code is asking for default and optional at start.
- A8.If user chooses 1, the code will run on default setting.
 - a. Roulette Wheel Selection
 - b. Single Point Crossover
 - c. Random Point Flip Mutation
 - d. 5000 Generation

A9. If user chooses 2, the code will ask for further optional from

- a. Selection (Roulette Wheel, Tournament, Rank)
- b. Crossover (Single Point, Uniform, Double Point)
- c. Mutation (Random Flip, Probability)
- d. How much generations?
- A10. Codes are running under 10 secs, depending on No of generations selected







Instruction:

To Test for best results, run "test_main_GA" function and select mat file of 92% saved into Mat Files folder in attachment and the alternative and best route will be plotted with 92%.

Customers greater satisfaction is all of my achievement. Looking for some good comments from you

Regards: Rashid Rao