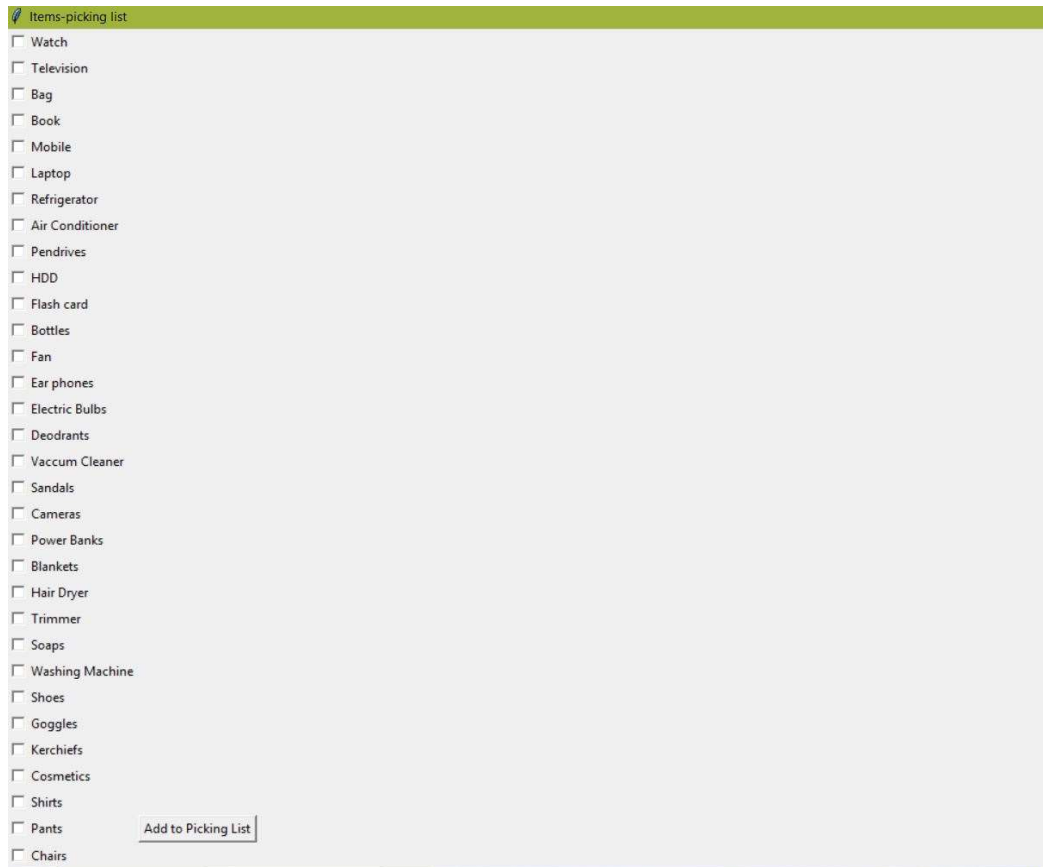


## 7. RESULTS & PERFORMANCE EVALUATION



The screenshot displays a web application interface with a title bar 'Items-picking list' in a green header. Below the header is a large, light gray rectangular area. On the left side of this area, there is a vertical list of 30 items, each preceded by an unchecked checkbox. The items are: Watch, Television, Bag, Book, Mobile, Laptop, Refrigerator, Air Conditioner, Pendrives, HDD, Flash card, Bottles, Fan, Ear phones, Electric Bulbs, Deodorants, Vacuum Cleaner, Sandals, Cameras, Power Banks, Blankets, Hair Dryer, Trimmer, Soaps, Washing Machine, Shoes, Goggles, Kerchiefs, Cosmetics, Shirts, Pants, and Chairs. To the right of the 'Pants' and 'Chairs' items, there is a small rectangular button with the text 'Add to Picking List'.

Item	Selected
Watch	<input type="checkbox"/>
Television	<input type="checkbox"/>
Bag	<input type="checkbox"/>
Book	<input type="checkbox"/>
Mobile	<input type="checkbox"/>
Laptop	<input type="checkbox"/>
Refrigerator	<input type="checkbox"/>
Air Conditioner	<input type="checkbox"/>
Pendrives	<input type="checkbox"/>
HDD	<input type="checkbox"/>
Flash card	<input type="checkbox"/>
Bottles	<input type="checkbox"/>
Fan	<input type="checkbox"/>
Ear phones	<input type="checkbox"/>
Electric Bulbs	<input type="checkbox"/>
Deodorants	<input type="checkbox"/>
Vacuum Cleaner	<input type="checkbox"/>
Sandals	<input type="checkbox"/>
Cameras	<input type="checkbox"/>
Power Banks	<input type="checkbox"/>
Blankets	<input type="checkbox"/>
Hair Dryer	<input type="checkbox"/>
Trimmer	<input type="checkbox"/>
Soaps	<input type="checkbox"/>
Washing Machine	<input type="checkbox"/>
Shoes	<input type="checkbox"/>
Goggles	<input type="checkbox"/>
Kerchiefs	<input type="checkbox"/>
Cosmetics	<input type="checkbox"/>
Shirts	<input type="checkbox"/>
Pants	<input type="checkbox"/>
Chairs	<input type="checkbox"/>

Add to Picking List

### 7.1 User Interface

Items-picking list

☐ Watch

☐ Television

☐ Bag

☒ Book

☐ Mobile

☒ Laptop

☐ Refrigerator

☒ Air Conditioner

☐ Pendrives

☒ HDD

☐ Flash card

☒ Bottles

☐ Fan

☐ Ear phones

☒ Electric Bulbs

☐ Deodrants

☐ Vaccum Cleaner

☒ Sandals

☐ Cameras

☐ Power Banks

☐ Blankets

☐ Hair Dryer

☒ Trimmer

☐ Soaps

☐ Washing Machine

☒ Shoes

☐ Goggles

☒ Kerchiefs

☐ Cosmetics

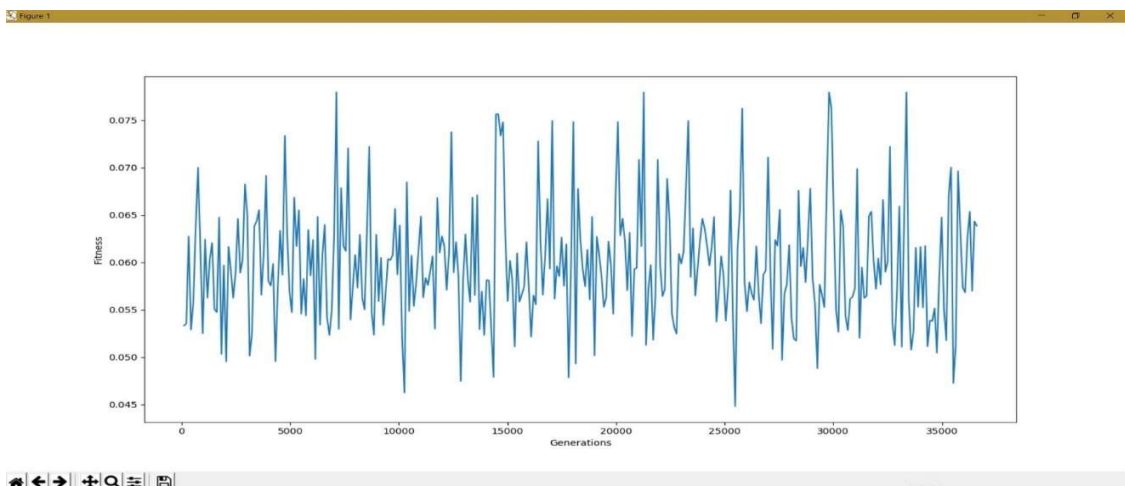
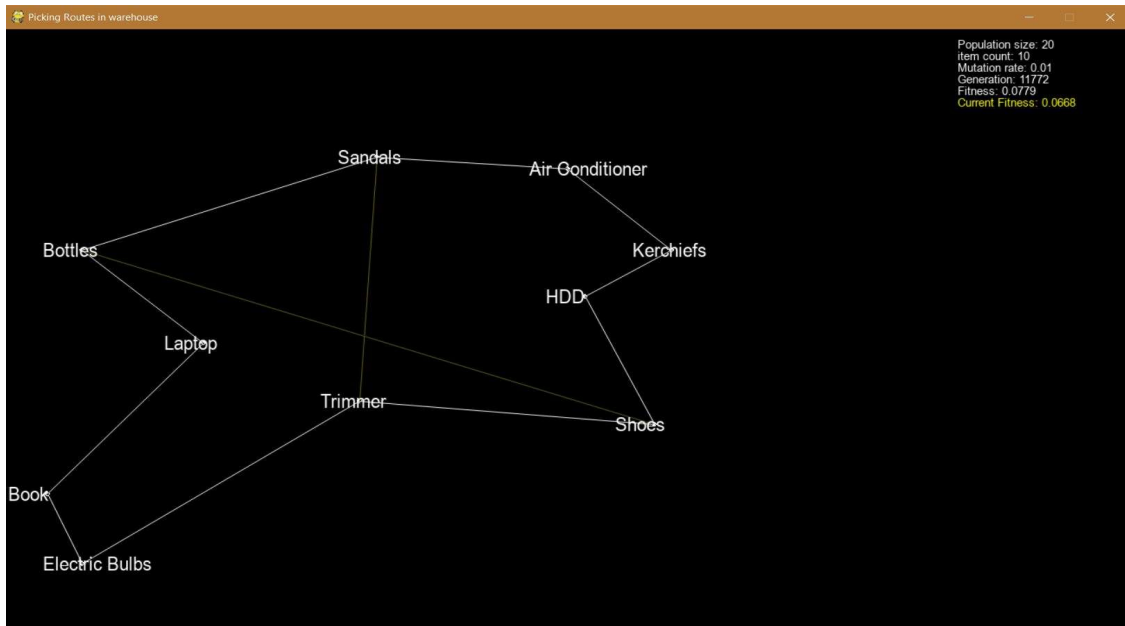
☐ Shirts

☐ Pants

☐ Chairs

Add to Picking List

## 7.2 Selecting Items



### 7.3 Graphical Result

```

RESTART: C:\Users\kumar\Desktop\project\modified Project\Genetic-Algorithm-TSP-Picking\mod-Graphic.py
pygame 1.9.4
Hello from the pygame community. https://www.pygame.org/contribute.html
>>> Selected Items: Book, Laptop, Air Conditioner, HDD, Bottles, Electric Bulbs, Sandals, Trimmer, Shoes, Kerchiefs
Best route: Trimmer->Electric Bulbs->Book->Laptop->Bottles->Sandals->Air Conditioner->Kerchiefs->HDD->Shoes
Best fitness: 0.07793949931603255

```

### 7.4 Output Path