Girlscript Hard Challenge Solution

Implementation:

This challenge is solved with the help of maintaining a proper database for storing all the survey results and food product details as well. The implementation is done in Python. The application also had a few different functionalities which are not mentioned in the problem statement but useful for the Admin.

Output Screenshots:

Slum Registration

```
Enter your option to work
 1. Admin
 2. Survey Taker
 3. quit
 Your Option: 1
Enter you option
 1. Add/Update Slum Record
 2. Update Food Products
 3. Fetch Food Information
 4. Add/Update Special Items
 5. Fetch the food product Details
 6. Fetch Special Items Details
 Your Choice:1
Enter the new slum name: LB. Nagar
Enter the slum description: It is really a poor slum
```

Food Product Details

```
Enter you option
 1. Add/Update Slum Record
 2. Update Food Products
 3. Fetch Food Information
 4. Add/Update Special Items
 5. Fetch the food product Details
 6. Fetch Special Items Details
 Your Choice:5
Food Product Id   Item name  Item Quantity  Item Price
FPDS3724915497 Rice 1Kg : 30 : 40
FPDS2960512821 Dal 1Kg : 30 : 65
FPDS6746181779 Cerelac 1 pack : 3 : 140
FPDS5948816561 Amul powder 1Kg : 1 : 240
FPDS5044891107 Nandini Milk TetraPacks 1lt : 8 : 45
FPDS6699557376 Bread loaf 1pack : 4 : 25
FPDS7744556420 Tiger/Parle G Biscuits 5pieces Pack : 30 : 3
FPDS6942299044 Canned Veggies : 4 : 100
FPDS3311911702 Canned Fruits : 4 : 100
FPDS5003258039 Medicine Packs : 1 : 500
FPDS6016090899 Calcium Sandoz Tablets : 1 : 500
Do you want to continue again: [y/n]y
```

Survey Registration

```
Enter your option to work
 1. Admin
 2. Survey Taker
 3. quit
 Your Option: 2
Select your Choice:
 1. Register Survey
 2. Fetch Food Information By Aadhar Number
 3. Quit
 Select your Option:1
Enter the person aadhar number: 56789
Enter the person name as per the aadhar records:John
Enter your gender choice:
 1. Male
 2. Female
 3. Other
 Slect your Option:1
Enter the person Age: 29
**********Slum names**********
Nagergul
Kharmanghat
Ibp (ibrahimpatnam)
Lb. nagar
Enter the person slum name properly from the above list: Lb. nagar
Enter How much rice in grams he/she eats per day?: 590
Enter How much dal in grams he/she eats per day?: 580
590 580
Choose the Options from the below List
1    Canned fruits
2    Canned veggies
3    Nandini milk tetrapacks 1lt
Enter you Food Item Option number from the above list:3
Enter you Food Item Option number from the above list:1
Thank You for taking the Survey!
```

Overall Slum Report

```
Enter you option
 1. Add/Update Slum Record
 2. Update Food Products
 3. Fetch Food Information
 4. Add/Update Special Items
 5. Fetch the food product Details
 6. Fetch Special Items Details
 Your Choice:3
Enter the slum Name: Lb. nagar
###################################### OVERALL SURVEY REPORT ######################################
                Personal Information
                Age Group               No.Of People
                Infants: Below 2years: 0
                Children: Between 3 to 18 years: 1
                Old Age: Above 70 years: 1
                Adult Female: Between 18 to 69 years: 1
                Adult Male: Between 18 to 69 years: 1
                Adult Other: Between 18 to 69 years: 0


                Rice in Kg per day: 2.79 KG : 30.00 KG : 3348.00
                Dal in Kg per day: 2.28 KG : 30.00 KG : 4446.00
                Nandini Milk TetraPacks: 3 : 8 : 1080.0
                Canned Fruits: 1 : 4 : 400.0
Total Amount Required: 9274.00
Do you want to continue again: [y/n]n
Enter your option to work
 1. Admin
 2. Survey Taker
 3. quit
 Your Option: 3
Thanks for using our Application.!
```