The Digital Outlet

GROUP-12

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WELCOME!

ALGORITHM

We have designed a Shopping Cart of 5 Main categories showing 20 Items in total.

- Grocery
- Electronics
- Fashion
- Sports Equipments
- Books

CODE

Our code consists of:

- Categories
- View Cart
- Delete Cart
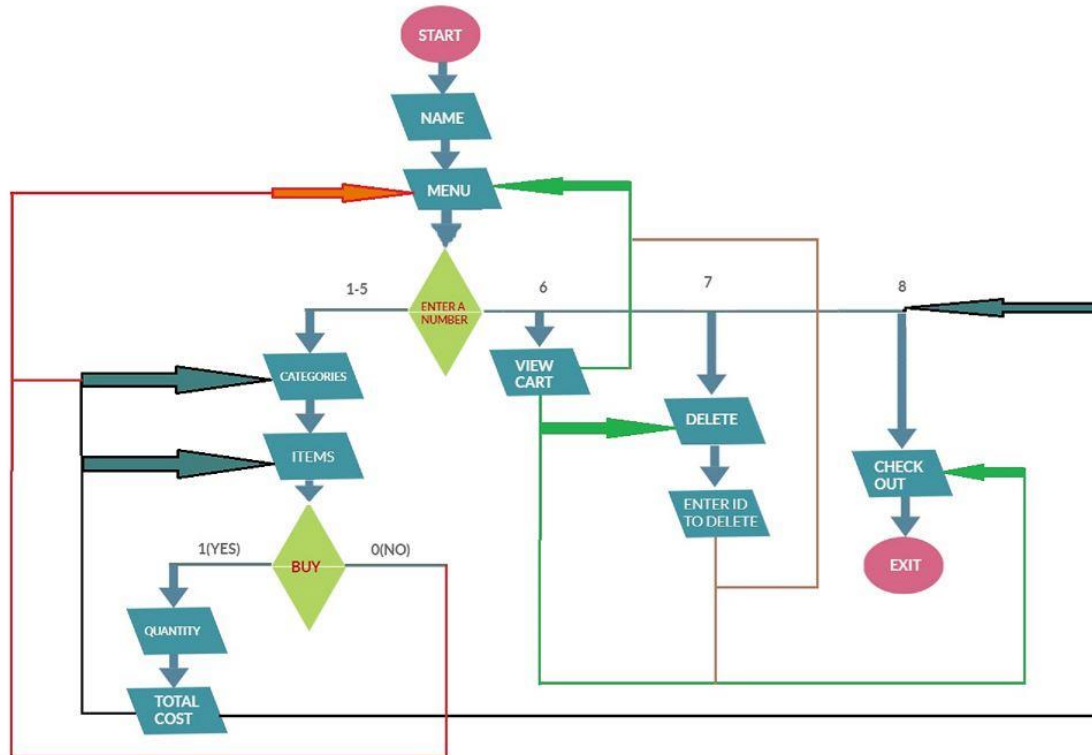- Check out

SCREENSHOTS OF OUTPUT

- Main Menu
- Purchasing Items
- Adding Item
- Going back to the Main Menu
- View Cart
- Delete Cart
- Check Out

SHOPPING CART

The basic idea behind the making of shopping cart is using linear data structure. Data structure in C are used to stored data in an organized and efficient manner. The C language has many data structures like array, linked list, stack, queue, etc. We have selected an Array as an appropriate data structure for our project. There are types in Array data structure like One dimensional Array and Multi-dimensional Array from which we have selected an One Dimensional Array which can be explained as a row where elements are stored one after another. syntax: datatype array_name[size]; datatype: It denotes the type of the elements in the array. Array_name: Name of the array. It must be a valid identifier. size: Number of elements an array can hold. We have used static int for total cost because it remains in memory while the program is running. A normal or auto variable is destroyed when a function call where the variable was declared is over. The quantity, total cost of each item & discount is stored in an one dimensional array. The categories and items are stored in pointer array whereas price of items in 1-D array. The code starts with the salutation according to the real time taken from the computer. We have declared various functions for various operations for example taking a look at cart, Category menu, Category items, total cost, etc. First list of items with their respective categories & cost of each item is displayed. Further, we give a choice to the user to navigate from different categories and then after selecting the category the items in the selected category are displayed. After selecting an item user is displayed with the offer/discount and the input for quantity is taken. The chosen item is then stored in the cart with its cost, quantity and discount if applicable. For attracting the consumer choice, we have given discounts/offers to users & be applied on the selected items with minimum amount of quantity to be purchased. For making the user navigation more independent, we have given choice to user to view the cart and make changes like Adding an item or removing any item. Once the user is done with the confirmation of items bought by him/her, again the choice is given for surety & satisfaction of his/her spending. If the user is done with adding all the items in cart, he/she can finally checkout. The final cart will be displayed with the items purchased with their respective quantity and discount. Final cost will be displayed with the delivery charges if applicable. This final cost will be printed in numbers as well as in words. While leaving username with the appreciation for choosing The Digital Outlet and giving us chance to serve the needs will be displayed.

SHOPPING CART

START

NAME

MENU

ENTER A NUMBER

1-5   6   7   8

CATEGORIES

VIEW CART

DELETE

CHECK OUT

ITEMS

ENTER ID TO DELETE

EXIT

BUY

1(YES)   0(NO)

QUANTITY

TOTAL COST

```c
1       #include<stdio.h>
2       #include<stdlib.h>
3       #include<string.h>
4       #include<time.h>
5
6       //Initializing all variables
7       static int totalCost;
8       int
i,j,choice_no,s_m,money,c=1,a[20],tc[20],cost[20],discount[20],grocery_no,electronics_no,
fashion_no,sportsequipments_no,books_no;
9       int ten_pos,unit_pos,hund_pos,thous_pos,ten_thous_pos,lakh_pos,ten_lakhs_pos;
10      char str[100];
11
12      // Declaring all functions which we have used in our code
13      void greetings();void mainmenu(); void choice();void viewcart(); void
deleteitem(); void deleteitem1(); void checkout(); void totalcost(); void saved_money();
14      void grocery(); void menugrocery(); void groceryitems();
15      void electronics(); void menuelectronics(); void electronicsitems();
16      void fashion(); void menufashion(); void fashionitems();
17      void sportsequipments(); void menusportsequipments(); void
sportsequipmentsitems();
18      void books(); void menubooks(); void booksitems();
19
20      //Initializing 1-D array for category, items and price
21      char *category[20] =
{"Grocery","","","","Electronics","","","","Fashion","","","","Sports
Equipments","","","","Books","","",""};
22      char *items[20] = {"Amul Milk","Real Fruit Juice","Doritos Chips","Nestle
Ketchup","Apple Airpods","Apple iPhone 12","Sony 4K TV","Apple iWatch Series 6","Dior
Sunglasses","Addidas Cap/Hat","Nike Shoes","Under Armour Hoodie","Nivia Football","Nike
Studs","MRF Bat","Nivia Basketball","Essential C","Let Us C","ANCI C","Modern C"};
23      int price[20] =
{40,100,50,200,20000,50000,20000,30000,1200,400,20000,6000,400,7000,5000,700,300,460,600,
550};
24      char *digit_word[10] =
{"Zero","One","Two","Three","Four","Five","Six","Seven","Eight","Nine"};
25      char *tens_word[8] =
{"Twenty","Thirty","Forty","Fifty","Sixty","Seventy","Eighty","Ninety"};
26      char *ten_nineteen[10] =
{"Ten","Eleven","Twelve","Thirteen","Fourteen","Fifteen","Sixteen","Seventeen","Eighteen"
,"Nineteen"};
27
28
29      int main()
30      {
31          greetings();//Salutations for the user
32          for(i=0;i<20;i++)//Making all the quantities zero of all items
33              {
34                  a[i]=0;
35              }
36
37          printf("Please Enter Your Name: ");
38          scanf("%s",&str);
39          printf("\nHello %s, Welcome to The Digital Outlet.\n",str);
40
41          //Here we will be printing all the categories/items included with price
from which user can choose to buy items
42          printf("\n-------------------------------------------------------------
-");
43          printf("\nSr.No.     Category              Items
Price");
44          printf("\n-------------------------------------------------------------
-");
45          int z;
46          for(z=0;z<4;z++)
47          {
48          printf("\n%-10d%-21s%-30s%5d",(z+1),category[z],items[z],price[z]);
49          }
50          printf("\n-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-
```

```
      .-");
 51            for(z=4;z<8;z++)
 52            {
 53            printf("\n%-10d%-21s%-30s%5d",(z+1),category[z],items[z],price[z]);
 54            }
 55            printf("\n-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-
      .-");
 56            for(z=8;z<12;z++)
 57            {
 58            printf("\n%-10d%-21s%-30s%5d",(z+1),category[z],items[z],price[z]);
 59            }
 60            printf("\n-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-
      .-");
 61            for(z=12;z<16;z++)
 62            {
 63            printf("\n%-10d%-21s%-30s%5d",(z+1),category[z],items[z],price[z]);
 64            }
 65            printf("\n-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-
      .-");
 66            for(z=16;z<20;z++)
 67            {
 68            printf("\n%-10d%-21s%-30s%5d",(z+1),category[z],items[z],price[z]);
 69            }
 70            printf("\n-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-
      .-");
 71            mainmenu();
 72
 73        }
 74
 75      void greetings() //Reading time from the system and greeting the user according
      to the time
 76        {
 77            //Initializing variable
 78            time_t s, val;
 79            struct tm* current_time;
 80            s = time(NULL);
 81            current_time = localtime(&s);
 82            val =(current_time->tm_hour);
 83            if(6<=val && val<12){
 84                printf("Good Morning\n");
 85            }
 86            else if(12<=val && val<17){
 87                printf("Good Afternoon\n");
 88            }
 89            else if(17<=val && val<=23){
 90                printf("Good Evening\n");
 91            }
 92            else{
 93                printf("Still Up! Good to see you at this Time!!!\n");
 94            }
 95        }
 96
 97      void viewcart() //This function used to show user the cart in middle of buying
      items and can check out or delete items after taking a look at it
 98        {
 99            if(a[0]!=0 || a[1]!=0 || a[2]!=0 || a[3]!=0 || a[4]!=0 || a[5]!=0 ||
      a[6]!=0 || a[7]!=0 || a[8]!=0 || a[9]!=0 || a[10]!=0 || a[11]!=0 || a[12]!=0 || a[13]!=0
      || a[14]!=0 || a[15]!=0 || a[16]!=0 || a[17]!=0 || a[18]!=0 || a[19]!=0 ){
100                printf("\n%s's cart\n\n",str);
101                printf("\n--------------------------------------------------------
      ------------------------------------");
102                printf("\nId        Items                                Quantity
      Rate          Discount            Price");
103                printf("\n--------------------------------------------------------
      ------------------------------------");
104                for(i=0;i<20;i++)
105                {
106                    if(a[i] != 0){
107                        printf("\n%-8d%-34s%-19d%-14d%-
      4d%%%21d\n",i,items[i],a[i],cost[i],discount[i],tc[i]);
108                    }
```

```c
109                     }
110                     totalcost();
111                     printf("\n");
112                     printf("
Total Cost=%20d\n",totalCost);
113             }
114         else{
115                     printf("\nYOUR CART IS EMPTY!!!!\n");
116         }
117         printf("Enter \n1 - Go Back to Category Menu/Main menu\n2 - Delete Item\n3
- Check Out\n");
118         printf("\nEnter number from above menu wherever you want to go: ");
119         scanf("%d",&c);
120         if(c==1){
121             mainmenu();
122         }
123         else if(c==2){
124             deleteitem1();
125         }
126         else if(c==3){
127             checkout();
128             }
129         else{
130             printf("\nInvalid Input!!\n");
131             mainmenu();
132         }
133
134     }
135
136     void mainmenu() //Main menu where all categories are listed and to view
cart,delete item and check out
137     {
138         printf("\n\nCategories:\n1 - Grocery\n2 - Electronics\n3 - Fashion\n4 -
Sports Equipments\n5 - Books\n\nHead Out towards View Cart/Check Out:\n6 - View Cart\n7 -
Delete Item\n8 - Check Out\n");
139         printf("\nEnter number where you want to be navigated: ");
140         scanf("%d",&choice_no);
141         choice();
142     }
143     void choice(){ //Choice function is used to navigate the user to specific
category
144         switch(choice_no)
145         {
146             case 1://User chose 1 he will be navigated to grocery category
147                 {
148                     groceryitems(); //Grocery function which contains all grocery
items
149                     break;
150                 }
151             case 2://User chose 2 he will be navigated to electronics category
152                 {
153                     electronicsitems();
154                     break;
155                 }
156             case 3://User chose 3 he will be navigated to fashion category
157                 {
158                     fashionitems();
159                     break;
160                 }
161             case 4://User chose 4 he will be navigated to sports equipment category
162                 {
163                     sportsequipmentsitems();
164                     break;
165                 }
166             case 5://User chose 5 he will be navigated to books category
167                 {
168                     booksitems();
169                     break;
170                 }
171             case 6://User chose 6 he will be navigated to view cart
172                 {
```

```c
173                        viewcart(); //View cart function which will show all the items
in cart and its total cost
174                        break;
175                    }
176                case 7://User chose 7 for check out
177                    {
178                        deleteitem(); //checkout function which will show the items
list and final cost with offers and discounts
179                        break;
180                    }
181                case 8://User chose 7 for check out
182                    {
183                        checkout(); //checkout function which will show the items list
and final cost with offers and discounts
184                        break;
185                    }
186                default:{
187                    printf("\nEnter Valid Categories Choice\n"); //If user give
different number this statement will be printed
188                    mainmenu();
189                    break;
190                    }
191            }
192
193        }
194
195      void deleteitem()//Here we will check the quantity if the quantity is zero it
will show your cart is empty, if items are present it will show the id of items and items
with total cost and price
196        {
197            for(i=0;i<20;i++)
198                {
199                    if(a[i]!=0)
200                        {
201                            printf("\n");
202                            printf("%s's cart\n",str);
203                            printf("\n");
204                            printf("\n-----------------------------------------------
--------------------------------------------------");
205                            printf("\nId        Items
Quantity            Rate            Discount            Price");
206                            printf("\n-----------------------------------------------
--------------------------------------------------");
207                            for(i=0;i<20;i++)
208                            {
209                                if(a[i] != 0){
210                                    printf("\n%-8d%-34s%-19d%-14d%-
4d%%21d\n",i,items[i],a[i],cost[i],discount[i],(cost[i]*a[i])-
(cost[i]*a[i]*discount[i]/100));
211                                }
212
213                            }
214                            totalcost();
215                            printf("\n");
216                            printf("
Total Cost=%20d\n",totalCost);
217                            deleteitem1();

219                        }
220                    else if(a[i]== 0)
221                        {
222                            printf("\nCART IS EMPTY!!!\n");
223                            mainmenu();
224                        }
225            }
226        }
227      void deleteitem1()//Function to delete item one by one and show the total cost
after deleting an item
228        {
229            int id;
230            for(i=0;i<20;i++){
```

```c
231                    if(a[i]>0){
232                        printf("\nEnter id to delete item\n");
233                        scanf("%d",&id);
234                        if(id<20&&id>=0)
235                            {
236                                totalcost();
237                                totalCost=totalCost-(tc[id]);
238                                a[id]=0;
239                            }
240                        else
241                        {
242                            printf("\nEnter Valid id\n");
243                        }
244                        printf("\nRevised Items \n");
245                        printf("\n-----------------------------------------------------
-------------------------------------------");
246                        printf("\nId        Items                              Quantity
Rate          Discount              Price");
247                        printf("\n-----------------------------------------------------
-------------------------------------------");
248                        for(i=0;i<20;i++)
249                        {
250                            if(a[i]!=0)
251                                {
252                                    printf("\n%-8d%-34s%-19d%-14d%-
4d%%%21d\n",i,items[i],a[i],cost[i],discount[i],(cost[i]*a[i])-
(cost[i]*a[i]*discount[i]/100));
253                                }
254                        }
255                        totalcost();
256                        totalCost= totalCost-tc[id];
257                        printf("\n");
258                        printf("
Total Cost=%20d\n",totalCost);
259                        printf("\n");
260                        printf("Enter \n1 - Go Back to Category Menu/Main menu\n2 -
Delete Item\n3 - Check Out\n");
261                        scanf("%d",&c);
262                        if(c==1){
263                            mainmenu();
264                        }
265                        else if(c==2){
266                            deleteitem1();
267                        }
268                        else if(c==3){
269                            checkout();
270                            }
271                        else{
272                            printf("\nInvalid Input!!\n");
273                            mainmenu();
274                        }
275                        }
276            }
277        for(i=0;i<20;i++)
278            {
279                if(a[i]== 0)
280                    {
281                        printf("\nCART IS EMPTY!!!\n");
282                    }
283                mainmenu();
284            }
285
286      }
287      void totalcost()//To calculate the total cost of items we buy
288      {
289
totalCost=tc[0]+tc[1]+tc[2]+tc[3]+tc[4]+tc[5]+tc[6]+tc[7]+tc[8]+tc[9]+tc[10]+tc[11]+tc[12
]+tc[13]+tc[14]+tc[15]+tc[16]+tc[17]+tc[18]+tc[19];
290      }
291
292      void totalcost_in_word()//To show the total cost of items we buy in words while
```

```
293        {
294            if (totalCost>=0 && totalCost<=9999999)
295            {
296                ten_pos = (totalCost/10)%10;
297                unit_pos = totalCost % 10;
298                hund_pos = (totalCost/100)%10;
299                thous_pos = (totalCost/1000)%10;
300                ten_thous_pos = (totalCost/10000)%10;
301                lakh_pos = (totalCost/100000)%10;
302                ten_lakhs_pos = totalCost/1000000;
303
304                if(ten_lakhs_pos != 0)
305                {
306                    if(ten_lakhs_pos == 1)
307                        {
308                        printf("%s",ten_nineteen[lakh_pos]);
309                        }
310                    else{
311                        if(ten_lakhs_pos >= 2)
312                            {
313                                printf("%s ",tens_word[ten_lakhs_pos-2]);
314                            }
315                        if(lakh_pos != 0)
316                        {
317                            printf("%s",digit_word[lakh_pos]);
318                        }
319                    }
320                    printf(" lakhs ");
321                }
322                else{
323                        if(lakh_pos != 0)
324                            {
325                                if(lakh_pos == 1){
326                                    printf("%s",digit_word[lakh_pos]);
327                                    printf(" lakh");
328                                }
329                                else{
330                                    printf("%s",digit_word[lakh_pos]);
331                                    printf(" lakhs ");
332                                }
333                            }
334                        }
335                if(ten_thous_pos != 0)
336                {
337                    if(ten_thous_pos == 1)
338                  {
339                      printf(" %s ",ten_nineteen[thous_pos]);
340                  }
341                  else
342                  {
343                      if(ten_thous_pos >= 2)
344                      {
345                          printf(" %s ",tens_word[ten_thous_pos-2]);
346                      }
347                      if(thous_pos != 0)
348                      {
349                          printf(" %s ",digit_word[thous_pos]);
350                      }
351                  }
352                  printf("thousand ");
353                }
354                if(thous_pos != 0 && ten_thous_pos == 0)
355                  {
356                      printf("%s thousand ",digit_word[thous_pos]);
357                  }
358
359                if(hund_pos != 0)
360                {
361                    printf("%s hundred ",digit_word[hund_pos]);
362                }
```

```
363
364                 if(ten_pos == 1)
365                 {
366                     printf("%s",ten_nineteen[unit_pos]);
367                 }
368                 else
369                 {
370                     if(ten_pos >= 2)
371                     {
372                         printf("%s ",tens_word[ten_pos-2]);
373                     }
374                     if(unit_pos != 0)
375                     {
376                         printf("%s ",digit_word[unit_pos]);
377                     }
378                 }
379             }
380
381         }
382
383     void checkout()//Function where the user will be showed the list of items
he/she purchased
384     {
385         totalcost();
386         if(totalCost>=2000){
387             if(a[0]!=0 || a[1]!=0 || a[2]!=0 || a[3]!=0 || a[4]!=0 || a[5]!=0 ||
a[6]!=0 || a[7]!=0 || a[8]!=0 || a[9]!=0 || a[10]!=0 || a[11]!=0 || a[12]!=0 || a[13]!=0
|| a[14]!=0 || a[15]!=0 || a[16]!=0 || a[17]!=0 || a[18]!=0 || a[19]!=0 )
388                 {
389                     printf("\n");
390                     printf("%s's cart\n",str);
391                     printf("\n");
392                     printf("\n-----------------------------------------------------
----------------------------------------------------");
393                     printf("\nId     Items
Quantity           Rate         Discount            Price");
394                     printf("\n-----------------------------------------------------
----------------------------------------------------");
395                     for(i=0;i<20;i++)
396                     {
397                         if(a[i] != 0){
398                             printf("\n%-8d%-34s%-19d%-14d%-
4d%%%21d\n",i,items[i],a[i],cost[i],discount[i],(cost[i]*a[i])-
(cost[i]*a[i]*discount[i]/100));
399                         }
400
401                     }
402                     totalcost();
403                     printf("\n");
404                     printf("
Total Cost=    %20d\n",totalCost);
405                     printf("\n
Final Cost=    %20d\n",totalCost);
406                 }
407         printf("\nYou Are Eligible For Free Delivery !!!\n");
408         printf("\nYour Final Cost is Rs.%d\n",totalCost);
409         printf("\nFinal Cost in words: ");
410         totalcost_in_word();
411         printf("Rupees only\n");
412         saved_money();
413         if(s_m != 0){
414             printf("\nYou saved Rs.%d\n",s_m);
415         }
416         printf("\nThanks %s for Choosing Us and Visit us again.\n",str);
417         }
418         else if(0<totalCost && totalCost<2000){
419             if(a[0]!=0 || a[1]!=0 || a[2]!=0 || a[3]!=0 || a[4]!=0 || a[5]!=0 ||
a[6]!=0 || a[7]!=0 || a[8]!=0 || a[9]!=0 || a[10]!=0 || a[11]!=0 || a[12]!=0 || a[13]!=0
|| a[14]!=0 || a[15]!=0 || a[16]!=0 || a[17]!=0 || a[18]!=0 || a[19]!=0 )
420                 {
421                     printf("\n");
```

```c
422                    printf("%s's cart\n",str);
423                    printf("\n");
424                    printf("\n-------------------------------------------------------
-----------------------------------------------");
425                    printf("\nId      Items                                Quantity
Rate          Discount            Price");
426                    printf("\n-------------------------------------------------------
-----------------------------------------------");
427                    for(i=0;i<20;i++)
428                    {
429                        if(a[i] != 0){
430                            printf("\n%-8d%-34s%-19d%-14d%-
4d%%%21d\n",i,items[i],a[i],cost[i],discount[i],(cost[i]*a[i])-
(cost[i]*a[i]*discount[i]/100));
431                        }
432
433                    }
434                    totalcost();
435                    printf("\n");
436                    printf("
Total Cost=%20d",totalCost);
437                    printf("\n
Delivery Charges=          100\n");
438                    printf("\n
Final Cost=%20d\n",totalCost+100);
439                    printf("\nYour Final Cost is Rs.%d\n",totalCost+100);
440                    totalCost=totalCost+100;
441                    printf("\nFinal Cost in words: ");
442                    totalcost_in_word();
443                    printf("Rupees only\n");
444                    saved_money();
445                    if(s_m != 0){
446                        printf("\nYou saved Rs.%d\n",s_m);
447                    }
448                    printf("\nThanks %s for Choosing Us and Visit us
again.\n",str);
449                }
450            }
451        else if(totalCost == 0){
452            printf("\nYOUR CART IS EMPTY!!!!\n");
453            printf("\nThanks %s for Choosing Us and Visit us again.\n",str);
454
455        }
456        exit(0);
457    }
458
459    void saved_money()
460    {
461        for(i=0;i<20;i++)
462        {
463            money += cost[i]*a[i];
464        }
465        totalcost();
466        s_m = money - totalCost;
467    }
468
///////////////////////////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////////
469
470
471    void menugrocery() //Menu which will appear after buying each item for
navigating anywhere user wants to go
472    {
473        printf("\nEnter \n1 - Add Item from %s category\n2 - Go Back to Category
Menu/Main menu\n3 - Delete Item\n4 - View Cart\n5 - Check Out\n",category[0]); //Menu to
go to navigate to Items Menu or Categories menu
474        printf("\nEnter number from above menu, you want to do: ");
475        scanf("%d",&c); //Taking user input where he wants to get navigated
476        if(c==1){ //If users choose 1 he will be navigated to the list of items in
grocery
477            groceryitems(); //Grocery function where all items are listed of
```

```
grocery
478              }
479              else if(c==2){ //If users choose 2 he will be navigated to the main menu
i.e category menu
480                  mainmenu(); //Main menu where all categories are listed
481              }
482              else if(c==3){ //If users choose 3 he will be navigated to delete item
function
483                  deleteitem(); //Delete Item function where we can delete specific items
from cart
484              }
485              else if(c==4){ //If users choose 4 he will be navigated to the main menu
i.e category menu
486                  viewcart(); //View cart function which will show all the items in cart
and its total cost
487
488                  printf("Enter \n1 - Add Item from %s category\n2 - Go Back to Category
Menu/Main menu\n3 - Delete Item\n4 - Check Out\n",category[0]); //Menu to go to navigate
to Items Menu, Categories menu, delete item or check out
489                  scanf("%d",&c);
490                  if(c==1){
491                      groceryitems();
492                  }
493                  else if(c==2){
494                      mainmenu();
495                  }
496                  else if(c==3){
497                      deleteitem();
498                  }
499                  else if(c==4){
500                      checkout();
501                  }
502                  else{
503                          printf("\nInvalid Input\n");
504                          mainmenu();
505                  }
506              }
507              else if(c==5){
508                  checkout();
509              }
510              else{
511                  printf("\nInvalid Input\n");
512                  mainmenu();
513              }
514          }
515
516      void menuelectronics() //Menu which will appear after buying each item for
navigating anywhere user wants to go
517      {
518          printf("\nEnter \n1 - Add Item from %s category\n2 - Go Back to Category
Menu/Main menu\n3 - Delete Item\n4 - View Cart\n5 - Check Out\n",category[4]); //Menu to
go to navigate to Items Menu or Categories menu
519          printf("\nEnter number from above menu, you want to do: ");
520          scanf("%d",&c); //Taking user input where he wants to get navigated
521          if(c==1){ //If users choose 1 he will be navigated to the list of items in
electronics
522              electronicsitems(); //Electronics function where all items are listed
of electronics
523          }
524          else if(c==2){ //If users choose 2 he will be navigated to the main menu
i.e category menu
525              mainmenu(); //Main menu where all categories are listed
526          }
527          else if(c==3){ //If users choose 3 he will be navigated to delete item
function
528              deleteitem(); //Delete Item function where we can delete specific items
from cart
529          }
530          else if(c==4){ //If users choose 4 he will be navigated to the main menu
i.e category menu
531              viewcart(); //View cart function which will show all the items in cart
```

```c
and its total cost
532
533                    printf("Enter \n1 - Add Item from %s category\n2 - Go Back to Category
Menu/Main menu\n3 - Delete Item\n4 - Check Out\n",category[4]); //Menu to go to navigate
to Items Menu, Categories menu, delete item or check out
534                    scanf("%d",&c);
535                    if(c==1){
536                            electronicsitems();
537                    }
538                    else if(c==2){
539                            mainmenu();
540                    }
541                    else if(c==3){
542                            deleteitem();
543                    }
544                    else if(c==4){
545                            checkout();
546                    }
547                    else{
548                            printf("\nInvalid Input\n");
549                            mainmenu();
550                    }
551            }
552            else if(c==5){
553                checkout();
554            }
555            else{
556                printf("\nInvalid Input\n");
557                mainmenu();
558            }
559
560       }
561
562       void menufashion() //Menu which will appear after buying each item for
navigating anywhere user wants to go
563       {
564            printf("\nEnter \n1 - Add Item from %s category\n2 - Go Back to Category
Menu/Main menu\n3 - Delete Item\n4 - View Cart\n5 - Check Out\n",category[8]); //Menu to
go to navigate to Items Menu or Categories menu
565            printf("\nEnter number from above menu, you want to do: ");
566            scanf("%d",&c); //Taking user input where he wants to get navigated
567            if(c==1){ //If users choose 1 he will be navigated to the list of items in
fashion
568                fashionitems(); //Fashion function where all items are listed of
fashion
569            }
570            else if(c==2){ //If users choose 2 he will be navigated to the main menu
i.e category menu
571                mainmenu(); //Main menu where all categories are listed
572            }
573            else if(c==3){ //If users choose 3 he will be navigated to delete item
function
574                deleteitem(); //Delete Item function where we can delete specific items
from cart
575            }
576            else if(c==4){ //If users choose 4 he will be navigated to the main menu
i.e category menu
577                viewcart(); //View cart function which will show all the items in cart
and its total cost
578
579                    printf("Enter \n1 - Add Item from %s category\n2 - Go Back to Category
Menu/Main menu\n3 - Delete Item\n4 - Check Out\n",category[8]); //Menu to go to navigate
to Items Menu, Categories menu, delete item or check out
580                    scanf("%d",&c);
581                    if(c==1){
582                        fashionitems();
583                    }
584                    else if(c==2){
585                        mainmenu();
586                    }
587                    else if(c==3){
```

```c
588                    deleteitem();
589                }
590            else if(c==4){
591                    checkout();
592                }
593            else{
594                    printf("\nInvalid Input\n");
595                    mainmenu();
596                }
597            }
598        else if(c==5){
599            checkout();
600            }
601        else{
602            printf("\nInvalid Input\n");
603            mainmenu();
604            }
605        }

607    void menusportsequipments() //Menu which will appear after buying each item for navigating anywhere user wants to go
608        {
609            printf("\nEnter \n1 - Add Item from %s category\n2 - Go Back to Category Menu/Main menu\n3 - Delete Item\n4 - View Cart\n5 - Check Out\n",category[12]); //Menu to go to navigate to Items Menu or Categories menu
610            printf("\nEnter number from above menu, you want to do: ");
611            scanf("%d",&c); //Taking user input where he wants to get navigated
612            if(c==1){ //If users choose 1 he will be navigated to the list of items in sport equipments
613                sportsequipmentsitems(); //Sports Equipments function where all items are listed of sports equipments
614            }
615            else if(c==2){ //If users choose 2 he will be navigated to the main menu i.e category menu
616                mainmenu(); //Main menu where all categories are listed
617            }
618            else if(c==3){ //If users choose 3 he will be navigated to delete item function
619                deleteitem(); //Delete Item function where we can delete specific items from cart
620            }
621            else if(c==4){ //If users choose 4 he will be navigated to the main menu i.e category menu
622                viewcart(); //View cart function which will show all the items in cart and its total cost
623
624                printf("Enter \n1 - Add Item from %s category\n2 - Go Back to Category Menu/Main menu\n3 - Delete Item\n4 - Check Out\n",category[12]); //Menu to go to navigate to Items Menu, Categories menu, delete item or check out
625                scanf("%d",&c);
626                if(c==1){
627                    sportsequipmentsitems();
628                }
629                else if(c==2){
630                    mainmenu();
631                }
632                else if(c==3){
633                    deleteitem();
634                }
635                else if(c==4){
636                    checkout();
637                }
638                else{
639                        printf("\nInvalid Input\n");
640                        mainmenu();
641                }
642            }
643            else if(c==5){
644                checkout();
645            }
646            else{
```

```c
647                    printf("\nInvalid Input\n");
648                    mainmenu();
649               }
650          }
651
652     void menubooks() //Menu which will appear after buying each item for navigating
anywhere user wants to go
653     {
654          printf("\nEnter \n1 - Add Item from %s category\n2 - Go Back to Category
Menu/Main menu\n3 - Delete Item\n4 - View Cart\n5 - Check Out\n",category[16]); //Menu to
go to navigate to Items Menu or Categories menu
655          printf("\nEnter number from above menu, you want to do: ");
656          scanf("%d",&c); //Taking user input where he wants to get navigated
657          if(c==1){ //If users choose 1 he will be navigated to the list of items in
books
658               booksitems(); //Books function where all items are listed of books
659          }
660          else if(c==2){ //If users choose 2 he will be navigated to the main menu
i.e category menu
661               mainmenu(); //Main menu where all categories are listed
662          }
663          else if(c==3){ //If users choose 3 he will be navigated to delete item
function
664               deleteitem(); //Delete Item function where we can delete specific items
from cart
665          }
666          else if(c==4){ //If users choose 4 he will be navigated to the main menu
i.e category menu
667               viewcart(); //View cart function which will show all the items in cart
and its total cost
668
669               printf("Enter \n1 - Add Item from %s category\n2 - Go Back to Category
Menu/Main menu\n3 - Delete Item\n4 - Check Out\n",category[16]); //Menu to go to navigate
to Items Menu, Categories menu, delete item or check out
670               scanf("%d",&c);
671               if(c==1){
672                    booksitems();
673               }
674               else if(c==2){
675                    mainmenu();
676               }
677               else if(c==3){
678                    deleteitem();
679               }
680               else if(c==4){
681                    checkout();
682               }
683               else{
684                         printf("\nInvalid Input\n");
685                         mainmenu();
686               }
687          }
688          else if(c==5){
689               checkout();
690          }
691          else{
692               printf("\nInvalid Input\n");
693               mainmenu();
694          }
695     }
696
697
///////////////////////////////////////////////////////////////////////////////////////
//////////////////////////////////////////////////////////////////////////
698
699     //Grocery Items function where list of items is displayed and taking user input
what he wants to choose or go back to category menu
700     void groceryitems()
701     {
702          printf("\nGrocery:\n1 - Amul Milk - Rs.40\n2 - Real Fruit Juice - Rs.100\n3
- Doritos Chips - Rs.50\n4 - Nestle Ketchup - Rs.200\n");
```

```c
703            printf("\nEnter the item number in grocery you want orelse enter 5 to exit
to Category Menu/main menu: ");
704            scanf("%d",&grocery_no); //User input to choose which item he wants to buy
705
706            //Cost for respective items such as "0" index determines Milk over here and
so on
707            cost[0]=40;
708            cost[1]=100;
709            cost[2]=50;
710            cost[3]=200;
711            grocery();
712        }
713
714      void electronicsitems()
715      {
716            printf("\nElectronics:\n1 - Apple Airpods - Rs.20000\n2 - Apple iPhone 12
Pro - Rs.50000\n3 - Sony 4K TV - Rs.20000\n4 - Apple iWatch Series 6 - Rs.30000\n");
717            printf("\nEnter the item number in electronics you want orelse enter 5 to
exit to Category Menu/main menu: ");
718            scanf("%d",&electronics_no); //User input to choose which item he wants to
buy
719
720            //Discount and cost for respective items such as "4" index determines
Headphone over here and so on
721            cost[4]=20000;
722            cost[5]=50000;
723            cost[6]=20000;
724            cost[7]=30000;
725            electronics();
726        }
727
728      void fashionitems()
729      {
730            printf("\nFashion:\n1 - Dior Sunglasses - Rs.1200\n2 - Addidas Cap/Hat -
Rs.400\n3 - Nike Shoes - Rs.20000\n4 - Under Armour Hoodie - Rs.6000\n");
731            printf("\nEnter the item number in electronics you want orelse enter 5 to
exit to Category Menu/main menu: ");
732            scanf("%d",&fashion_no); //User input to choose which item he wants to buy
733
734            //Discount and cost for respective items such as "8" index determines
Sunglasses over here and so on
735            cost[8]=1200;
736            cost[9]=400;
737            cost[10]=20000;
738            cost[11]=6000;
739            fashion();
740        }
741      void sportsequipmentsitems()
742      {
743            printf("\nSports Equipments:\n1 - Nivia Football - Rs.400\n2 - Nike Studs -
Rs.7000\n3 - MRF Bat - Rs.5000\n4 - Nivia Basketball - Rs.700\n");
744            printf("\nEnter the item number in electronics you want orelse enter 5 to
exit to Category Menu/main menu: ");
745            scanf("%d",&sportsequipments_no); //User input to choose which item he
wants to buy
746
747            //Discount and cost for respective items such as "12" index determines
football over here and so on
748            cost[12]=400;
749            cost[13]=7000;
750            cost[14]=5000;
751            cost[15]=700;
752            sportsequipments();
753        }
754
755      void booksitems()
756      {
757            printf("\nBooks:\n1 - Essential C - Rs.300\n2 - Let Us C - Rs.460\n3 - ANCI
C - Rs.600\n4 - Modern C - Rs.550\n");
758            printf("\nEnter the item number in electronics you want orelse enter 5 to
exit to Category Menu/main menu: ");
```

```
759            scanf("%d",&books_no); //User input to choose which item he wants to buy
760
761            //Discount and cost for respective items such as "16" index determines
Essential C over here and so on
762            cost[16]=300;
763            cost[17]=460;
764            cost[18]=600;
765            cost[19]=550;
766            books();
767        }
768
/////////////////////////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////////////////
769
770        // Grocery function where user choose some item from the item list and will be
navigated to specific switch case for buying
771        void grocery()
772        {
773            switch(grocery_no)
774            {
775                //User chose 1 i.e he wants to buy milk
776                case 1:
777                    {
778                        int num,q0; //Initializing integers for user input and quantity
779                        printf("\nYou chose Amul Milk.Are you sure you want to buy?");
//Taking confirmation from the user whether he wants to buy the item
780                        printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
781                        scanf("%d",&num);//Taking user input for confirmation
782                        //If he choose 1, will take how much quantity he wants and show
offers
783                        if(num==1)
784                            {
785                                printf("\n
****************************************************");
786                                printf("\n  *
*");
787                                printf("\n   $ BUY MORE THAN 2 QUANTITY AND GET FLAT
10%% OFF $");
788                                printf("\n  *
*");
789                                printf("\n
****************************************************");
790                                printf("\n\nEnter Quantity for Amul Milk: ");
791                                scanf("%d",&q0); //Taking user input for quantity of
milk
792                                a[0]+=q0; //Incrementing the quantity with previous one
if user repeats or buy same item again (a+=b is a=a+b)
793
794                                //Calculate the cost of items on the basis of quantity
and offers
795                                if(a[0]>=3){
796                                        discount[0]=10;
797                                        tc[0]=((cost[0]*a[0])-(cost[0]*a[0]*0.1));
798                                }
799                                else if(a[0]<=2 && a[0]>0){
800                                    discount[0]=0;
801                                    tc[0]=cost[0]*a[0];
802                                }
803                                else{
804                                    printf("Invalid Quantity!!!");
805                                    groceryitems();
806                                }
807                            }
808                        //If user says 0 at the time of confirming to buy milk user
will be navigated back to grocery items menu
809                        else if(num==0){
810                                groceryitems();
811                            }
812                        else{
813                                printf("\nInvalid Input\n");
814                                mainmenu();
```

```c
 815                                }
 816                                //Calculating total cost and displaying the cost of items
in cart
 817                                totalcost();
 818                                printf("\nTotal Cost of items in cart: %d\n",totalCost);
 819                                //Navigating user back to grocery menu where he can add
item of grocery or go to different category
 820                                menugrocery();
 821                            break;
 822                        }
 823                //User chose 1 i.e he wants to buy real fruit juice
 824                case 2:
 825                    {
 826                        int num,q1;
 827                        printf("\nYou chose Real fruit Juice.Are you sure you want to
buy?");
 828                        printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
 829                        scanf("%d",&num);
 830                        if(num==1)
 831                            {
 832                                printf("\n
****************************************************");
 833                                printf("\n   *
*");
 834                                printf("\n    $ BUY MORE THAN 3 QUANTITY AND GET FLAT
15%% OFF $");
 835                                printf("\n   *
*");
 836                                printf("\n
****************************************************");
 837                                printf("\n\nEnter Quantity for Real Fruit Juice: ");
 838                                scanf("%d",&q1);
 839                                a[1]+=q1;
 840                                if(a[1]>3)
 841                                {
 842                                    discount[1]=15;
 843                                    tc[1]=((cost[1]*a[1])-(cost[1]*a[1]*0.15));
 844                                }
 845                                else if(a[1]<=3 && a[1]>0){
 846                                    discount[1]=0;
 847                                    tc[1]=cost[1]*a[1];
 848                                }
 849                                else{
 850                                    printf("Invalid Quantity!!!");
 851                                    groceryitems();
 852                                }
 853                            }
 854                        else if(num==0){
 855                                groceryitems();
 856                        }
 857                        else{
 858                                printf("\nInvalid Input\n");
 859                                mainmenu();
 860                        }
 861                        totalcost();
 862                        printf("\nTotal Cost of items in cart: %d\n",totalCost);
 863                        menugrocery();
 864                    break;
 865                }
 866            case 3:
 867                {
 868                    int num,q2;
 869                    printf("\n");
 870                    printf("You chose Chips.Are you sure you want to buy?");
 871                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
 872                    scanf("%d",&num);
 873                    if(num==1)
 874                        {
 875                            printf("\n
****************************************************");
 876                            printf("\n   *
```

```c
                                   *");
877                                printf("\n    $ BUY MORE THAN 4 QUANTITY AND GET FLAT
10%% OFF $");
878                                printf("\n  *
*");
879                                printf("\n
*****************************************************");
880                                printf("\n\nEnter Quantity for Chips: ");
881                                scanf("%d",&q2);
882                                a[2]+=q2;
883
884                                if(a[2]>=5)
885                                {
886                                    discount[2]=10;
887                                    tc[2]=((cost[2]*a[2])-(cost[2]*a[2]*0.1));
888                                }
889                                else if(a[2]<=4 && a[2]>0){
890                                    discount[2]=0;
891                                    tc[2]=cost[2]*a[2];
892                                }
893                                else{
894                                    printf("Invalid Quantity!!!");
895                                    groceryitems();
896                                }
897                            }
898                    else if(num==0){
899                            groceryitems();
900                        }
901                    else{
902                            printf("\nInvalid Input\n");
903                            groceryitems();
904                        }
905                        totalcost();
906                        printf("\nTotal Cost of items in cart: %d\n",totalCost);
907                        menugrocery();
908                    break;
909                }
910          case 4:
911              {
912                    int num,q3;
913                    printf("\n");
914                    printf("You chose Ketchup.Are you sure you want to buy?");
915                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
916                    scanf("%d",&num);
917                    if(num==1)
918                        {
919                            printf("\n
***************************************************");
920                            printf("\n  *
*");
921                            printf("\n    $ BUY MORE THAN 1 QUANTITY AND GET FLAT
10%% OFF $");
922                            printf("\n  *
*");
923                            printf("\n
***************************************************");
924                            printf("\n\nEnter Quantity for Ketchup: ");
925                            scanf("%d",&q3);
926                            a[3]+=q3;
927
928                            if(a[3]>=2)
929                            {
930                                discount[3]=15;
931                                tc[3]=((cost[3]*a[3])-(cost[3]*a[3]*0.15));
932                            }
933                            else if(a[3]==1){
934                                discount[3]=0;
935                                tc[3]=cost[3]*a[3];
936                            }
937                            else{
938                                printf("Invalid Quantity!!!");
```

```
939                                   groceryitems();
940                               }
941                           }
942               else if(num==0){
943                       groceryitems();
944                   }
945               else{
946                   printf("\nInvalid Input\n");
947                   mainmenu();
948               }
949                   totalcost();
950                   printf("\nTotal Cost of items in cart: %d\n",totalCost);
951                   menugrocery();
952               break;
953           }
954       case 5:
955           {
956               mainmenu();
957           }
958       default:{
959           printf("\nInvalid Input!!!\n");
960           groceryitems();
961           break;
962           }
963           }
964   }
965
966
967   // Electronics function where user choose some item from the item list and will
be navigated to specific switch case for buying
968   void electronics()
969   {
970       switch(electronics_no)
971           {
972           //User chose 1 i.e he wants to buy apple airpods
973           case 1:
974               {
975                   int num,q4; //Initializing integers for user input and quantity
976                   printf("\nYou chose Apple Airpods.Are you sure you want to
buy?"); //Taking confirmation from the user
977                   printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
978                   scanf("%d",&num);
979                   //If he choose 1, will take how much quantity he wants and show
offers
980                   if(num==1)
981                       {
982                           printf("\n
************************************************************");
983                           printf("\n  *
*");
984                           printf("\n   $ BUY 2 AND GET 50% OFF OR BUY MORE THAN 2
GET 55%% OFF $");
985                           printf("\n  *
*");
986                           printf("\n
************************************************************");
987                           printf("\n\nEnter Quantity for Apple Airpods: ");
988                           scanf("%d",&q4); //Taking quantity and incrementing it
if user repeats or buy same item again (a+=b is a=a+b)
989                           a[4]+=q4;
990
991                           //Calculate the cost of items on the basis of quantity
and offers
992                           if(a[4]>2){
993                                   discount[4]=55;
994                                   tc[4]=((cost[4]*a[4])-(cost[4]*a[4]*0.55));
995                               }
996                           else if(a[4]==2){
997                               discount[4]=50;
998                               tc[4]=((cost[4]*a[4])-(cost[4]*a[4]*0.5));
999                               }
```

```c
1000                        else if(a[4]==1){
1001                            discount[4]=0;
1002                            tc[4]=(cost[4]*a[4]);
1003                        }

1004
1005                        else{
1006                            printf("Invalid Quantity!!!");
1007                            electronicsitems();
1008                        }
1009                    }
1010                else if(num==0){
1011                        electronicsitems();
1012                    }
1013                else{
1014                        printf("\nInvalid Input\n");
1015                        electronicsitems();
1016                    }
1017                    //Calculating total cost and displaying the cost of items
in cart
1018                    totalcost();
1019                    printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1020                    //Navigating user back to electronics menu where he can add
item of elsectronics or go to different category
1021                    menuelectronics();
1022                break;
1023            }
1024        //User chose 1 i.e he wants to buy real fruit juice
1025        case 2:
1026            {
1027                int num,q5;
1028                printf("\nYou chose Apple iPhone 12 Pro.Are you sure you want
to buy?");
1029                printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1030                scanf("%d",&num);
1031                if(num==1)
1032                    {
1033                        printf("\n
**********************************************************");
1034                        printf("\n  *
*");
1035                        printf("\n   $ BUY 1 OR MORE THAN 1 QUANTITY AND GET
FLAT 30%% OFF $");
1036                        printf("\n  *
*");
1037                        printf("\n
**********************************************************");
1038                        printf("\n\nEnter Quantity for Apple iPhone 12 Pro: ");
1039                        scanf("%d",&q5);
1040                        a[5]+=q5;
1041                        if(a[5]>=1)
1042                            {
1043                                discount[5]=30;
1044                                tc[5]=((cost[5]*a[5])-(cost[5]*a[5]*0.3));
1045                            }
1046                        else{
1047                            printf("Invalid Quantity!!!");
1048                            electronicsitems();
1049                        }
1050                    }
1051                else if(num==0){
1052                        electronicsitems();
1053                    }
1054                else{
1055                        printf("\nInvalid Input\n");
1056                        electronicsitems();
1057                    }
1058                totalcost();
1059                printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1060                menuelectronics();
1061            break;
1062        }
```

```c
1063                case 3:
1064                    {
1065                        int num,q6;
1066                        printf("\n");
1067                        printf("You chose Sony 4K TV.Are you sure you want to buy?");
1068                        printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1069                        scanf("%d",&num);
1070                        if(num==1)
1071                            {
1072                                printf("\n
**********************************************************");
1073                                printf("\n  *
*");
1074                                printf("\n   $ BUY 1 OR MORE THAN 1 QUANTITY AND GET
FLAT 30%% OFF $");
1075                                printf("\n  *
*");
1076                                printf("\n
**********************************************************");
1077                                printf("\n\nEnter Quantity for Sony 4K TV: ");
1078                                scanf("%d",&q6);
1079                                a[6]+=q6;
1080
1081                                if(a[6]>=1)
1082                                {
1083                                    discount[6]=30;
1084                                    tc[6]=((cost[6]*a[6])-(cost[6]*a[6]*0.3));
1085                                }
1086                                else{
1087                                    printf("Invalid Quantity!!!");
1088                                    electronicsitems();
1089                                }
1090                            }
1091                        else if(num==0){
1092                                electronicsitems();
1093                            }
1094                        else{
1095                                printf("\nInvalid Input\n");
1096                                electronicsitems();
1097                            }
1098                        totalcost();
1099                        printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1100                        menuelectronics();
1101                    break;
1102                    }
1103                case 4:
1104                    {
1105                        int num,q7;
1106                        printf("\n");
1107                        printf("You chose Apple iWatch Series 6.Are you sure you want
to buy?");
1108                        printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1109                        scanf("%d",&num);
1110                        if(num==1)
1111                            {
1112                                printf("\n
**********************************************************");
1113                                printf("\n  *
*");
1114                                printf("\n   $ BUY 2 AND GET 50% OFF OR BUY MORE THAN 2
GET 55%% OFF $");
1115                                printf("\n  *
*");
1116                                printf("\n
**********************************************************");
1117                                printf("\n\nEnter Quantity for Apple iWatch Series 6:
");
1118                                scanf("%d",&q7);
1119                                a[7]+=q7;
1120
1121                                if(a[7]==2)
```

```c
1122                                 {
1123                                     discount[7]=50;
1124                                     tc[7]=((cost[7]*a[7])-(cost[7]*a[7]*0.5));
1125                                 }
1126                                 else if(a[7]>2){
1127                                     discount[7]=55;
1128                                     tc[7]=((cost[7]*a[7])-(cost[7]*a[7]*0.55));
1129                                 }
1130                                 else if( a[7]==1){
1131                                     discount[7]=0;
1132                                     tc[7]=cost[7]*a[7];
1133                                 }
1134                                 else{
1135                                     printf("Invalid Quantity!!!");
1136                                     electronicsitems();
1137                                 }
1138                             }
1139                         else if(num==0){
1140                             electronicsitems();
1141                         }
1142                         else{
1143                             printf("\nInvalid Input\n");
1144                             electronicsitems();
1145                         }
1146                         totalcost();
1147                         printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1148                         menuelectronics();
1149                     break;
1150                 }
1151         case 5:
1152             {
1153                 mainmenu();
1154             }
1155         default:{
1156             printf("\nInvalid Input!!!\n");
1157             electronicsitems();
1158             break;
1159             }
1160             }
1161     }
1162
1163     // Fashion function where user choose some item from the item list and will be
navigated to specific switch case for buying
1164     void fashion()
1165     {
1166         switch(fashion_no)
1167         {
1168             //User chose 1 i.e he wants to buy Dior Sunglasses
1169             case 1:
1170                 {
1171                     int num,q8; //Initializing integers for user input and quantity
1172                     printf("\nYou chose Dior Sunglasses.Are you sure you want to
buy?"); //Taking confirmation from the user
1173                     printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1174                     scanf("%d",&num);
1175                     //If he choose 1, will take how much quantity he wants and show
offers
1176                     if(num==1)
1177                         {
1178                             printf("\n
*********************************************************");
1179                             printf("\n  *
*");
1180                             printf("\n   $ BUY 2 AND GET 50% OFF OR BUY MORE THAN 2
GET 55%% OFF $");
1181                             printf("\n  *
*");
1182                             printf("\n
*********************************************************");
1183                             printf("\n\nEnter Quantity for Dior Sunglasses: ");
1184                             scanf("%d",&q8); //Taking quantity and incrementing it
```

```
      if user repeats or buy same item again (a+=b is a=a+b)
1185                            a[8]+=q8;
1186
1187                            //Calculate the cost of items on the basis of quantity
      and offers
1188                            if(a[8]>2){
1189                                    discount[8]=55;
1190                                    tc[8]=((cost[8]*a[8])-(cost[8]*a[8]*0.55));
1191                            }
1192                            else if(a[8]==2){
1193                                discount[8]=50;
1194                                tc[8]=((cost[8]*a[8])-(cost[8]*a[8]*0.5));
1195                            }
1196                            else if(a[8]==1){
1197                                discount[8]=0;
1198                                tc[8]=(cost[8]*a[8]);
1199                            }
1200                            else{
1201                                printf("Invalid Quantity!!!");
1202                                fashionitems();
1203                            }
1204                        }
1205                    else if(num==0){
1206                            fashionitems();
1207                        }
1208                    else{
1209                            printf("\nInvalid Input\n");
1210                            fashionitems();
1211                        }
1212                            //Calculating total cost and displaying the cost of items
      in cart
1213                            totalcost();
1214                            printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1215                            //Navigating user back to fashion menu where he can add
      item of fashion or go to different category
1216                            menufashion();
1217                        break;
1218                    }
1219            //User chose 1 i.e he wants to buy real fruit juice
1220            case 2:
1221                {
1222                    int num,q9;
1223                    printf("\nYou chose Addidas Cap/Hat.Are you sure you want to
      buy?");
1224                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1225                    scanf("%d",&num);
1226                    if(num==1)
1227                        {
1228                            printf("\n
      *****************************************************");
1229                            printf("\n  *
      *");
1230                            printf("\n   $ BUY MORE THAN 1 QUANTITY AND GET FLAT
      15%% OFF $");
1231                            printf("\n  *
      *");
1232                            printf("\n
      *****************************************************");
1233                            printf("\n\nEnter Quantity for Addidas Cap/Hat: ");
1234                            scanf("%d",&q9);
1235                            a[9]+=q9;
1236                            if(a[9]>1)
1237                            {
1238                                discount[5]=15;
1239                                tc[9]=((cost[9]*a[9])-(cost[9]*a[9]*0.15));
1240                            }
1241                            else if(a[9]==1)
1242                            {
1243                                    discount[5]=0;
1244                                    tc[9]=cost[9]*a[9];
1245                            }
```

```c
1246                             else{
1247                                 printf("Invalid Quantity!!!");
1248                                 fashionitems();
1249                             }
1250                         }
1251                     else if(num==0){
1252                             fashionitems();
1253                     }
1254                     else{
1255                             printf("\nInvalid Input\n");
1256                             fashionitems();
1257                     }
1258                     totalcost();
1259                     printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1260                     menufashion();
1261                     break;
1262                 }
1263         case 3:
1264             {
1265                 int num,q10;
1266                 printf("\n");
1267                 printf("You chose Nike Shoes.Are you sure you want to buy?");
1268                 printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1269                 scanf("%d",&num);
1270                 if(num==1)
1271                     {
1272                             printf("\n ********************");
1273                             printf("\n  *              *");
1274                             printf("\n   $ FLAT 25%% OFF $");
1275                             printf("\n  *              *");
1276                             printf("\n ********************");
1277                             printf("\n\nEnter Quantity for Nike Shoes: ");
1278                             scanf("%d",&q10);
1279                             a[10]+=q10;

1281                             if(a[10]>=1)
1282                             {
1283                                 discount[10]=25;
1284                                 tc[10]=((cost[10]*a[10])-(cost[10]*a[10]*0.25));
1285                             }
1286                             else{
1287                                 printf("Invalid Quantity!!!");
1288                                 fashionitems();
1289                             }
1290                         }
1291                     else if(num==0){
1292                             fashionitems();
1293                     }
1294                     else{
1295                             printf("\nInvalid Input\n");
1296                             fashionitems();
1297                     }
1298                     totalcost();
1299                     printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1300                     menufashion();
1301                     break;
1302                 }
1303         case 4:
1304             {
1305                 int num,q11;
1306                 printf("\n");
1307                 printf("You chose Under Armour Hoodie.Are you sure you want to
buy?");
1308                 printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1309                 scanf("%d",&num);
1310                 if(num==1)
1311                     {
1312                             printf("\n
*******************************************");
1313                             printf("\n  *
*");
```

```c
1314                                printf("\n    $ BUY 2 OR MORE THAN 2 GET FLAT 25%% OFF
$");
1315                                printf("\n  *
*");
1316                                printf("\n
*********************************************");
1317                                printf("\n\nEnter Quantity for Under Armour Hoodie: ");
1318                                scanf("%d",&q11);
1319                                a[11]+=q11;
1320
1321                                if(a[11]>=2)
1322                                {
1323                                    discount[11]=25;
1324                                    tc[11]=((cost[11]*a[11])-(cost[11]*a[11]*0.25));
1325                                }
1326                                else if( a[11]==1){
1327                                    discount[11]=0;
1328                                    tc[11]=cost[11]*a[11];
1329                                }
1330                                else{
1331                                    printf("Invalid Quantity!!!");
1332                                    fashionitems();
1333                                }
1334                            }
1335                    else if(num==0){
1336                                fashionitems();
1337                            }
1338                    else{
1339                                printf("\nInvalid Input\n");
1340                                fashionitems();
1341                            }
1342                        totalcost();
1343                        printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1344                        menufashion();
1345                    break;
1346                }
1347            case 5:
1348                {
1349                        mainmenu();
1350                }
1351            default:{
1352                    printf("\nInvalid Input!!!\n");
1353                    fashionitems();
1354                    break;
1355                }
1356                }
1357        }
1358
1359    // Sports equipments function where user choose some item from the item list
and will be navigated to specific switch case for buying
1360    void sportsequipments()
1361    {
1362        switch(sportsequipments_no)
1363        {
1364            //User chose 1 i.e he wants to buy Dior Sunglasses
1365            case 1:
1366                {
1367                    int num,q12; //Initializing integers for user input and
quantity
1368                    printf("\nYou chose Nivia Football.Are you sure you want to
buy?"); //Taking confirmation from the user
1369                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1370                    scanf("%d",&num);
1371                    //If he choose 1, will take how much quantity he wants and show
offers
1372                    if(num==1)
1373                        {
1374                            printf("\n *******************");
1375                            printf("\n  *              *");
1376                            printf("\n   $ FLAT 55%% OFF $");
1377                            printf("\n                 *");
```

```c
1378                                    printf("\n ********************");
1379                                    printf("\n\nEnter Quantity for Nivia Football : ");
1380                                    scanf("%d",&q12); //Taking quantity and incrementing it
if user repeats or buy same item again (a+=b is a=a+b)
1381                                    a[12]+=q12;
1382
1383                                    //Calculate the cost of items on the basis of quantity
and offers
1384                                    if(a[12]>=1){
1385                                            discount[12]=55;
1386                                            tc[12]=((cost[12]*a[12])-
(cost[12]*a[12]*0.55));
1387                                    }
1388                                    else{
1389                                        printf("Invalid Quantity!!!");
1390                                        sportsequipmentsitems();
1391                                    }
1392                                }
1393                        else if(num==0){
1394                                sportsequipmentsitems();
1395                            }
1396                        else{
1397                                printf("\nInvalid Input\n");
1398                                sportsequipmentsitems();
1399                            }
1400                        //Calculating total cost and displaying the cost of items in
cart
1401                        totalcost();
1402                        printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1403                        //Navigating user back to sports equipments menu where he can
add item of sports equipments or go to different category
1404                        menusportsequipments();
1405                        break;
1406                    }
1407            //User chose 1 i.e he wants to buy real fruit juice
1408            case 2:
1409                {
1410                    int num,q13;
1411                    printf("\nYou chose Nike Studs.Are you sure you want to buy?");
1412                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1413                    scanf("%d",&num);
1414                    if(num==1)
1415                        {
1416                            printf("\n
****************************************************");
1417                            printf("\n   *
*");
1418                            printf("\n   $ BUY MORE THAN 1 QUANTITY AND GET FLAT
15%% OFF $");
1419                            printf("\n   *
*");
1420                            printf("\n
****************************************************");
1421                            printf("\n\nEnter Quantity for Nike Studs: ");
1422                            scanf("%d",&q13);
1423                            a[13]+=q13;
1424                            if(a[13]>1)
1425                                {
1426                                    discount[13]=15;
1427                                    tc[13]=((cost[13]*a[13])-(cost[13]*a[13]*0.15));
1428                                }
1429                            else if(a[13]==1)
1430                                {
1431                                    discount[13]=0;
1432                                    tc[13]=cost[13]*a[13];
1433                                }
1434                            else{
1435                                printf("Invalid Quantity!!!");
1436                                sportsequipmentsitems();
1437                            }
1438                        }
```

```c
1439                    else if(num==0){
1440                            sportsequipmentsitems();
1441                    }
1442                    else{
1443                            printf("\nInvalid Input\n");
1444                            sportsequipmentsitems();
1445                    }
1446                    totalcost();
1447                    printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1448                    menusportsequipments();
1449                    break;
1450            }
1451        case 3:
1452            {
1453                    int num,q14;
1454                    printf("\n");
1455                    printf("You chose MRF Bat.Are you sure you want to buy?");
1456                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1457                    scanf("%d",&num);
1458                    if(num==1)
1459                        {
1460                            printf("\n ********************");
1461                            printf("\n  *                *");
1462                            printf("\n   $ FLAT 50%% OFF $");
1463                            printf("\n  *                *");
1464                            printf("\n ********************");
1465                            printf("\n\nEnter Quantity for MRF Bat: ");
1466                            scanf("%d",&q14);
1467                            a[14]+=q14;
1468
1469                            if(a[14]>=1)
1470                            {
1471                                discount[14]=50;
1472                                tc[14]=((cost[14]*a[14])-(cost[14]*a[14]*0.5));
1473                            }
1474                            else{
1475                                printf("Invalid Quantity!!!");
1476                                sportsequipmentsitems();
1477                            }
1478                        }
1479                    else if(num==0){
1480                            sportsequipmentsitems();
1481                    }
1482                    else{
1483                            printf("\nInvalid Input\n");
1484                            sportsequipmentsitems();
1485                    }
1486                    totalcost();
1487                    printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1488                    menusportsequipments();
1489                    break;
1490            }
1491        case 4:
1492            {
1493                    int num,q15;
1494                    printf("\n");
1495                    printf("You chose Nivia Basketball.Are you sure you want to
buy?");
1496                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1497                    scanf("%d",&num);
1498                    if(num==1)
1499                        {
1500                            printf("\n ********************");
1501                            printf("\n  *                *");
1502                            printf("\n   $ FLAT 50%% OFF $");
1503                            printf("\n  *                *");
1504                            printf("\n ********************");
1505                            printf("\n\nEnter Quantity for Nivia Basketball: ");
1506                            scanf("%d",&q15);
1507                            a[15]+=q15;
1508
```

```
1509                          if(a[15]>=1)
1510                          {
1511                              discount[15]=50;
1512                              tc[15]=((cost[15]*a[15])-(cost[15]*a[15]*0.5));
1513                          }
1514                          else{
1515                              printf("Invalid Quantity!!!");
1516                              sportsequipmentsitems();
1517                          }
1518                      }
1519                  else if(num==0){
1520                          sportsequipmentsitems();
1521                      }
1522                  else{
1523                          printf("\nInvalid Input\n");
1524                          sportsequipmentsitems();
1525                      }
1526              totalcost();
1527              printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1528              menusportsequipments();
1529              break;
1530          }
1531      case 5:
1532          {
1533              mainmenu();
1534          }
1535      default:{
1536          printf("\nInvalid Input!!!\n");
1537          sportsequipmentsitems();
1538          break;
1539          }
1540          }
1541      }
1542      // Books function where user choose some item from the item list and will be
navigated to specific switch case for buying
1543      void books()
1544      {
1545          switch(books_no)
1546          {
1547              //User chose 1 i.e he wants to buy Essential C
1548              case 1:
1549                  {
1550                      int num,q16; //Initializing integers for user input and
quantity
1551                      printf("\nYou chose Essential C.Are you sure you want to
buy?"); //Taking confirmation from the user
1552                      printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1553                      scanf("%d",&num);
1554                      //If he choose 1, will take how much quantity he wants and show
offers
1555                      if(num==1)
1556                          {
1557                              printf("\n ********************");
1558                              printf("\n  *                 *");
1559                              printf("\n   $ FLAT 10%% OFF $");
1560                              printf("\n                    *");
1561                              printf("\n ********************");
1562                              printf("\n\nEnter Quantity for Essential C : ");
1563                              scanf("%d",&q16); //Taking quantity and incrementing it
if user repeats or buy same item again (a+=b is a=a+b)
1564                              a[16]+=q16;
1565
1566                              //Calculate the cost of items on the basis of quantity
and offers
1567                              if(a[16]>=1){
1568                                  discount[16]=10;
1569                                  tc[16]=((cost[16]*a[16])-(cost[16]*a[16]*0.1));
1570                              }
1571                              else{
1572                                  printf("Invalid Quantity!!!");
1573                                  booksitems();
```

```c
1574                                    }
1575                            }
1576                    else if(num==0){
1577                            booksitems();
1578                    }
1579                    else{
1580                            printf("\nInvalid Input\n");
1581                            booksitems();
1582                    }
1583                    //Calculating total cost and displaying the cost of items in
cart
1584                    totalcost();
1585                    printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1586                    //Navigating user back to books menu where he can add item of
books or go to different category
1587                    menubooks();
1588                    break;
1589            }
1590        //User chose 1 i.e he wants to buy real fruit juice
1591        case 2:
1592            {
1593                    int num,q17;
1594                    printf("\nYou chose Let Us C.Are you sure you want to buy?");
1595                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1596                    scanf("%d",&num);
1597                    if(num==1)
1598                        {
1599                            printf("\n ********************");
1600                            printf("\n   *               *");
1601                            printf("\n    $ FLAT 10%% OFF $");
1602                            printf("\n   *               *");
1603                            printf("\n ********************");
1604                            printf("\n\nEnter Quantity for Let Us C: ");
1605                            scanf("%d",&q17);
1606                            a[17]+=q17;
1607
1608                            if(a[17]>=1)
1609                            {
1610                                discount[17]=10;
1611                                tc[17]=((cost[17]*a[17])-(cost[17]*a[17]*0.1));
1612                            }
1613                            else{
1614                                printf("Invalid Quantity!!!");
1615                                booksitems();
1616                            }
1617                        }
1618                    else if(num==0){
1619                            booksitems();
1620                    }
1621                    else{
1622                            printf("\nInvalid Input\n");
1623                            booksitems();
1624                    }
1625                    totalcost();
1626                    printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1627                    menubooks();
1628                    break;
1629            }
1630        case 3:
1631            {
1632                    int num,q18;
1633                    printf("\n");
1634                    printf("You chose ANCI C.Are you sure you want to buy?");
1635                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1636                    scanf("%d",&num);
1637                    if(num==1)
1638                        {
1639                            printf("\n ********************");
1640                            printf("\n   *               *");
1641                            printf("\n    $ FLAT 10%% OFF $");
1642                            printf("\n   *               *");
```

```c
1643                            printf("\n ********************");
1644                            printf("\n\nEnter Quantity for ANCI C: ");
1645                            scanf("%d",&q18);
1646                            a[18]+=q18;
1647
1648                            if(a[18]>=1)
1649                            {
1650                                discount[18]=10;
1651                                tc[18]=((cost[18]*a[18])-(cost[18]*a[18]*0.1));
1652                            }
1653                            else{
1654                                printf("Invalid Quantity!!!");
1655                                booksitems();
1656                            }
1657                        }
1658                    else if(num==0){
1659                            booksitems();
1660                        }
1661                    else{
1662                            printf("\nInvalid Input\n");
1663                            booksitems();
1664                        }
1665                    totalcost();
1666                    printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1667                    menubooks();
1668                    break;
1669                }
1670            case 4:
1671                {
1672                    int num,q19;
1673                    printf("\n");
1674                    printf("You chose Modern C.Are you sure you want to buy?");
1675                    printf("\nIf 'Yes' Enter 1 \nIf 'No' Enter 0\n");
1676                    scanf("%d",&num);
1677                    if(num==1)
1678                        {
1679                            printf("\n ********************");
1680                            printf("\n   *              *");
1681                            printf("\n   $ FLAT 10%% OFF $");
1682                            printf("\n   *              *");
1683                            printf("\n ********************");
1684                            printf("\n\nEnter Quantity for Modern C: ");
1685                            scanf("%d",&q19);
1686                            a[19]+=q19;
1687
1688                            if(a[19]>=1)
1689                            {
1690                                discount[19]=10;
1691                                tc[19]=((cost[19]*a[19])-(cost[19]*a[19]*0.1));
1692                            }
1693                            else{
1694                                printf("Invalid Quantity!!!");
1695                                booksitems();
1696                            }
1697                        }
1698                    else if(num==0){
1699                            booksitems();
1700                        }
1701                    else{
1702                            printf("\nInvalid Input\n");
1703                            booksitems();
1704                        }
1705                    totalcost();
1706                    printf("\nTotal Cost of items in cart:Rs. %d\n",totalCost);
1707                    menubooks();
1708                    break;
1709                }
1710            case 5:
1711                {
1712                    mainmenu();
1713                }
```

```
1714                default:{
1715                    printf("\nInvalid Input!!!\n");
1716                    booksitems();
1717                    break;
1718                    }
1719                    }
1720        }
1721
//////////////////////////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////////////////////
```

MAIN MENU

PURCHASING ITEMS

ADDING ITEM

GOING BACK TO THE MAIN MENU

VIEW CART

DELETE CART

CHECK OUT

```
Select "C:\Users\Pihu\Downloads\main (1).exe"

Enter
1 - Go Back to Category Menu/Main menu
2 - Delete Item
3 - Check Out

Enter number from above menu wherever you want to go: 3

RITU's cart


-----------------------------------------------------------------------
Id    Items                Quantity      Rate     Discount        Price
-----------------------------------------------------------------------
1     Real Fruit Juice     4             100       15  %            340

4     Apple Airpods        3             20000     55  %          27000

                                         Total Cost=              27540

                                         Final Cost=              27540

You Are Eligible For Free Delivery !!!

Your Final Cost is Rs.27540

Final Cost in words:  Twenty  Seven thousand Five hundred Forty Rupees only

You saved Rs.32860

Thanks RITU for Choosing Us and Visit us again.

Process returned 0 (0x0)   execution time : 108.256 s
Press any key to continue.
```