

# Green University of Bangladesh Department of Computer Science and Engineering(CSE)

Faculty of Sciences and Engineering Semester: (Summer, Year:2022), B.Sc. in CSE (Day)

## PROJECT REPORT

Course Title: Data Structure Lab

Course Code: CSE 106 Section: DB

## **Student Details**

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**Submission Date: 10/09/2022** 

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[For Teachers use only: Don't Write Anything inside this box]

	<u> Lab Report Status</u>	
Marks:	Signature:	
	Date:	
1. TITLE OF THE PROJECT EXPERIMENT		

## Census of Population Management Method

### 2. Introduction:

Census of population defines as the total process of collecting, compiling and social data

pertaining to a specific time to all persons in a country. Each individual is enumerated separately; the characteristics of each person within the household are recorded separately. The census covers a precisely defined territory and includes every person present or residing within its scope. The housing census should include every type of building and living quarters. Each person and each type of building and living quarters is enumerated with respect to a well defined point of time.

### 3. IMPLEMENTATION

int year;

```
Code:
// C program for the implementation of
// Census of Population Management Method.
// source Code prepared by Shariful Islam Emon
// Dept. of CSE, 213902056
// Green University of Bangladesh
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<conio.h>
struct People
   long int reg;
   char phn[20];
   char name[50];
   char add[80];
   char gen[15];
   int age;
   int date;
   int month;
```

```
struct People *next;
}* head;
void added(long int reg,char* phn, char* name, char* add, char* gen, int age,int date,int
month, int year)
{
  struct People * people = (struct People *) malloc(sizeof(struct People));
  people->reg = reg;
  strcpy(people->phn, phn);
   strcpy(people->name, name);
  strcpy(people->add, add);
  strcpy(people->gen, gen);
   people->age = age;
   people->date = date;
   people->month = month;
   people->year = year;
   people->next = NULL;
  if(head==NULL)
     head = people;
  }
  else
     /*people->next = head;
     head = people;*/
     struct People*temp=head;
     while(temp->next!=NULL)
       temp=temp->next;
     temp->next=people;
  printf("\n\n\t\t\Information of this Registration No. %Id Added Successfully In The
List !!!\n",reg);
int getCount(struct People * temp)
  int count = 0;
  struct People * current = head;
  while (current != NULL)
  {
     count++;
     current = current->next;
  }
  return count;
}
void display()
  int count;
```

```
struct People * temp = head;
  if(temp== NULL)
   printf("\n\t\t\ Information Of Registration No. List is Empty!!!\n");
 else
   printf("\n\n\t\t\t**********Peoples Information
while(temp!=NULL)
   {
     printf("\n\t\tThe Registration No. :%Id\n",temp->reg);
     printf("\t\t\tThe Phone Number of people :%s\n",temp->phn);
     printf("\t\tThe Name of People :%s\n",temp->name);
     printf("\t\tThe Address of People:%s\n",temp->add);
     printf("\t\tThe Gender of People :%s\n",temp->gen);
     printf("\t\tThe Age of People :%d\n",temp->age);
     printf("\t\tThe people date of birth: %d/%d/%d\n",temp->date,
temp->month, temp->year);
     temp = temp->next;
   }
printf("\n\t\tTotal Registered Information of People in the list is: %d", getCount(head)); }
void search(long int reg)
 struct People * temp = head;
  if(head==NULL)
   printf("\n\t\t\t Information Of Registration No. List is Empty!!!\n");
 }
 else
   while(temp!=NULL)
     if(temp->reg==reg)
       printf("\n\t\t\Information of Registration No. %Id Is Found !!!\n", reg);
; printf("\t\t\t Searching People Information List
");
printf("\n\t\tThe Registration No. :%Id\n",temp->reg);
```

```
printf("\t\t\tThe Phone Number of people :%s\n",temp->phn);
          printf("\t\t\tThe Name of People :%s\n",temp->name);
          printf("\t\tThe Address of People:%s\n",temp->add);
          printf("\t\tThe Gender of People :%s\n",temp->gen);
          printf("\t\tThe Age of People :%d\n",temp->age);
          printf("\t\tThe people date of birth: %d/%d/%d\n",temp->date, temp->month,
temp->year);
          return;
       }
       temp = temp->next;
     }
  }
  printf("\n\n\t\tNot Found the People with %ld Reg No. In The Information List !!!!!\n",reg);
}
void Delete(long int reg)
  struct People * temp1 = head;
  struct People * temp2 = head;
  while(temp1!=NULL)
  {
     if(temp1->reg==reg)
        printf("\n\t\tInformation of Registration No. %ld Is Found !!!\n", reg);
        if(temp1==temp2)
          head = head->next:
          free(temp1);
       }
       else
          temp2->next = temp1->next;
          free(temp1);
        printf("\n\t\tDeleting of the Registration No. Information Successfully
        !!!!\n"); return;
     }
     temp2 = temp1;
     temp1 = temp1->next;
  printf("\n\n\t\tNot Found the People with %ld Reg No. In The Information List !!!!!\n",reg);
void update(long int reg)
{
  struct People * temp = head;
  while(temp!=NULL)
  {
```

```
printf("\n\t\t\Information of Registration No. %Id Is Found !!!\n\n\n", reg);
        printf("\t\t\********************************");
        printf("\n\n\t\t\t**********
        ; printf("\n\t\tUpdate People Registration Number :");
       scanf("%ld",&temp->reg);
        printf("\n\t\tUpdate People Phone Number :");
       fflush(stdin);
       gets(temp->phn);
        printf("\n\t\t\Update People Name :");
       fflush(stdin);
       gets(temp->name);
        printf("\n\t\tUpdate People Address :");
       fflush(stdin);
       gets(temp->add);
       fflush(stdin);
        printf("\n\t\t\tUpdate People Gender :");
       fflush(stdin);
       gets(temp->gen);
        printf("\n\t\t\Update People age :");
       fflush(stdin);
       scanf("%d",&temp->age);
        printf("\n\t\tUpdate People Birth Date : ");
       scanf("%d",&temp->date);
        printf("\n\t\t\Update People Birth Month : ");
       scanf("%d",&temp->month);
        printf("\n\t\t\tUpdate people Birth Year : ");
        scanf("%d",&temp->year);
        printf("\n\n\t\t\Information of this Registration No. %Id Updated Successfully In The
List !!!\n",temp->reg);
        return;
     }
     temp = temp->next;
  }
  printf("\n\n\t\tNot Found the People with %ld Reg No. In The Information List !!!!!\n",reg);
}
int main()
  head = NULL;
  int choice, temp;
  long int reg;
   char phn[20];
  char name[50];
   char add[80];
   char gen[15];
```

if(temp->reg==reg)

```
int age;
  int date;
  int month;
  int year;
  system("cls");
 while(1)
   //mainMenu:
   system("cls");
printf("\t\t\t Welcome to Census Population Management Method ");
printf("\t\t National Identity Registration ");
printf("\n\n\t\t\1.Add People Information--->");
    printf("\n\n\t\t\2.Display People In List--->");
    printf("\n\n\t\t\t3.Search A People Information--->");
    printf("\n\n\t\t4.Delete People Information--->");
    printf("\n\n\t\t\t5.Update A People Information--->");
    printf("\n\n\t\t\6.Exit from the Application--->");
    printf("\n\n\t\t*Select A Option From Here: ");
    scanf("%d",&choice);
   switch (choice)
   case 1:
     system("cls");
      printf("\n\n\t\t***********Enter New People
Information******************************);
      ; printf("\n\t\tEnter People Registration Number :");
     scanf("%ld",&reg);
      printf("\n\t\tEnter People Phone Number :");
     fflush(stdin);
     gets(phn);
      printf("\n\t\t\Enter People Name :");
     fflush(stdin);
     gets(name);
      printf("\n\t\t\Enter People Address :");
     fflush(stdin);
     gets(add);
      printf("\n\t\tEnter People Gender :");
     fflush(stdin);
     gets(gen);
      printf("\n\t\t\Enter People age :");
```

```
fflush(stdin);
  scanf("%d",&age);
  printf("\n\t\t\Enter People Birth Date : ");
  fflush(stdin);
  scanf("%d",&date);
  printf("\n\t\tEnter People Birth Month : ");
  fflush(stdin);
  scanf("%d",&month);
  printf("\n\t\tEnter people Birth Year : ");
  fflush(stdin);
  scanf("%d",&year);
  added(reg, phn, name, add, gen, age, date, month, year);
  break;
case 2:
  system("cls");
  display();
  break;
case 3:
  system("cls");
  display();
  printf("\n\n\t\t\tTo Search Enter The People Registration No.
  :"); scanf("%ld",&reg);
  system("cls");
  search(reg);
  break;
case 4:
  system("cls");
  display();
  printf("\n\n\t\t\tTo Delete Enter The People Registration No.
  :"); scanf("%ld",&reg);
  system("cls");
  Delete(reg);
  break;
case 5:
  system("cls");
  display();
  printf("\n\n\t\t\To Update Enter The People Registration No.
  :"); scanf("%ld",&reg);
  system("cls");
```

```
update(reg);
break;
case 6:
    exit(1);
default :
    system("cls");
    printf("\n\t\t\tInvalid Option!!!Choice Right Option!!");
    //goto mainMenu;
}
printf("\n\n\t\t\tContinue to Again!!!");
getch();
}
```

# Output:

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