```
#include<iostream.h>
#include<conio.h>
#include<fstream.h>
#include<string.h>
#include<ctype.h>
#include<stdio.h>
#include<process.h>
class Blood_Bank //class definition
private: char name[25]; // variable declaration with access specifier
  int age;
  char blood_group[3];
  char address[30];
  char email_id[20];
  long long mobile_number;
  char gender[6];
 // class methods declaration with access specifier
 public: void get_details() // this function will take the input from the user on call
   cout<<"\n Enter the name of the donor: \t";
   gets(name);
   cout<<"\n Enter the age of the Donor: \t";
   cin>>age;
   cout<<"\nEnter the address of the donor: \t";
   gets(address);
   cout<<"\n Enter the email id of the donor: \t";
   gets(email_id);
   cout<<"\nEnter the mobile number: \t";
   cin>>mobile_number;
```

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cout<<"\n Enter the blood group: \t";
  gets(blood_group);
  cout<<"\n Enter the gender of the donor: \t";</pre>
  gets(gender);
}
      void display_details() // this function will show all the details on call
         {
               cout<<"\n Name:\t"<<name;</pre>
  cout<<"\n Age: \t"<<age;</pre>
  cout<<"\n Address: \t"<<address;</pre>
  cout<<"\n Email-id: \t"<<email_id;</pre>
  cout<<"\n Mobile Number: \t"<<mobile_number;</pre>
  cout<<"\n Blood Group:"<<blood_group;</pre>
  cout<<"\n Gender: \t "<<gender;</pre>
         };
         char* return_bg()
         {
               return blood_group;
         }
```

```
fstream fp; // declaring an object of file type
Blood_Bank bb;// declaring the object of class Blood_Bank type;
void insertdata_file() // this function is responsible for inserting the donor data into the data(.dat) file
{
fp.open("donor_details.dat",ios::out|ios::app);// .dat file stores data in binary format
bb.get_details();
fp.write((char*)&bb,sizeof(Blood_Bank));
fp.close();
cout<<"\n The data of the donor has been inserted";</pre>
getch();
}
void retrievedata_file() //this function extracts all the information from the file
{
  fp.open("donor_details.dat",ios::out);
  fp.read((char*)&bb,sizeof(Blood_Bank));
        {
          bb.display_details();
        }
  fp.close();
  getch();
}
void display_specific(char blood_gr[3]) // this function will extract the data of the donors based on the
blood group
          {
                fp.open("donor_details.dat",ios::out);
```

```
fp.read((char*)&bb,sizeof(Blood_Bank));
                  if(bb.return_bg()==blood_gr) // this condition checks the blood group in the file data
                  {
                        bb.display_details();
                  }
                }
                getch();
          }
int main() // main running function
{
 int ch;
  char bg[3]; //parameter variable for blood group
  int i;
  clrscr();
 do{
          cout<<"\n Choos your option"; //user driven menu application</pre>
          cout<<"\n1. Insert Donor Data"; //provides a variety of choices
          cout<<"\n2. View All Donors Data"; //user friendly
          cout<<"\n3. View Donor Data by Blood Group";
          cout<<"\n4. Exit";
          cin>>ch;
          switch(ch) // switch case to select options
          {
          case 1: insertdata_file();
                  break; // call for inserting data
```