ASSIGNMENT 3

TOPIC: File Handling

TYPE 3 Question: Function write type questions Based on binary files

```
Q1. Given a binary file "BUS.DAT", containing records of the following class bus type.
class bus
{ int bus no;
char desc[40];
int distance; //in km
public:
void read( )
{ cin>>bus_no; gets(desc) ; cin>>distance; }
void display()
{ cout<<bus_no; puts(desc); cout<<distance; }
int retdist( )
{ return distance; }
};
Write a function in C++ that would read the contents of file "BUS.DAT" and display the
details of those buses which travels the distance more than 100 km.
Q2. Given a binary file Sports.dat, containing records of the following structure type:
Struct Sports
Char Event[20];
Char Participant[10][30];
Write a function in C++ that would read contents from the file Sports .dat and creates a file named
Athletic.dat copying only those records from Sports.dat where the event name is "Athletics".
Q3. Given a binary file TELEPHON.DAT, containing records of the following class Directory:
class Directory
char Name [20];
char Address [30];
char AreaCode[5];
char Phone_No[15];
public:
void Register();
void Show();
int CheckCode (char AC [ ] )
return strcmp ( AreaCode , AC );
}
Write a function COPYABC () in C++, that would copy all those records having AreaCode as "123" from
TELEPHON.DAT to TELEBACK.DAT.
```

Q4. Write a function in C++ to display object from the binary file "PRODUCT.Dat" whose product price is more than Rs 200. Assuming that binary file is containing the objects of the following class:

```
class PRODUCT
int PRODUCT_no;
char PRODUCT_name[20];
float PRODUCT_price;
public:
void enter( )
cin>> PRODUCT_no; gets(PRODUCT_name);
cin >> PRODUCT_price;
void display()
cout<< PRODUCT_no ; cout<<PRODUCT_name ;cout<< PRODUCT_price;</pre>
int ret_Price()
return PRODUCT_price;
};
Q5. Given the binary file CAR.Dat, containing records of the following class CAR
class CAR
int C_No;
char C_Name[20];
float Milage;
public:
void enter( )
cin>> C_No; gets(C_Name); cin >> Milage;
void display()
cout<< C_No ; cout<<C_Name ; cout<< Milage;</pre>
int RETURN_Milage()
return Milage;
Write a function in C++, that would read contents from the file CAR.DAT and
display the details of car with mileage between 100 to 150.
Q6. Write a function in C++ to search for a BookNo from a binary file "BOOK.DAT",
assuming the binary file is containing the objects of the following class.
class BOOK
int Bno;
char Title[20];
public:
int RBno(){return Bno;}
void Enter(){cin>>Bno;gets(Title);}
void Display(){cout<<Bno<<Title<<endl;}</pre>
};
```

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Q7. Write a function in C++ to add new objects at the bottom of a binary file "STUDENT.DAT", assuming the binary file is containing the objects of the following class.

```
class STUD
int Rno;
char Name[20];
public:
void Enter(){cin>>Rno;gets(Name);}
void Display(){cout<<Rno<<Name<<endl;}</pre>
void Addnew()
fstream FIL;
FIL.open("STUDENT.DAT",ios::binary|ios::app);
STUD S;
char CH;
do
S.Enter();
FIL.write((char*)&S,sizeof(S));
cout <<"More(Y/N)?";cin>>CH;
while(CH!='Y');
FIL.close();
Q8. Write a function in C++ to search and display the details of all flights, whose
destination is "Mumbai" from "FLIGHT.DAT". Assuming the binary file is
containing objects of class.
class FLIGHT
int Fno;
                 //Flight Number
char From[20]; //Flight Starting point
char To[20]; //Flight Destination
char* GetFrom( ) {return From ;}
char* GetTo() {return To;}
void Enter() {cin >> Fno; gets (From); gets(To); }
void Display( ) { cout << Fno<< ":" << From << ":" << To << endl ;}</pre>
};
Q9. Given a binary file GAME.DAT, containing records of the following structure
type
struct Game
char GameName [20];
char Participant [10] [30];
Write a function in C++ that would read contents from the file GAME.DAT and
creates a file named BASKET.DAT copying only those records from GAME.DAT
where the game name is "Basket Ball".
Q10. Assuming the class Computer as follows:
class computer
char chiptype[10];
int speed;
```

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```
public:
  void getdetails()
{
  gets(chiptype);
  cin>>speed;
}
  void showdetails()
{
  cout<<"Chip"<<chiptype<<" Speed= "<<speed;
}
};</pre>
```

Write a function readfile() to read all the records present in an already existing binary file SHIP.DAT and display them on the screen, also count the number of records present in the file.