

## JAVA PROGRAMMING

LA - 6

Q1 Write a program to demonstrate the knowledge of students in File handling. Eg., Define a class 'Donor' to store the belowmentioned details of a blood donor. Name, Age, Address, Contact number, blood group, date of the last donation Create 'n' objects of this class for all the regular donors at Vellore. Write these objects to a file. Read these objects from the file and display only those donors' details whose blood group is 'A+ve' and had not donated for the recent six months.

## **CODE:**

```
import java.util.*;
import java.io.*;
class donor {
  String name;
  int Age;
  String Address;
  String BloodGroup;
  String last_donation_date;
  public donor(String name, int Age, String Address, String BloodGroup, String last_donation_date) {
    this.name = name;
    this.Age = Age;
    this.Address = Address;
    this.BloodGroup = BloodGroup;
    this.last_donation_date = last_donation_date;
}
public class assignment {
  public static void main(String[] args) {
    donor[] d1 = new donor[10];
    d1[0] = new donor("Shifa", 24, "Gurgaon", "O+ve", "16/12/2024");
    d1[1] = new donor("Deep", 26, "Thane", "AB+ve", "24/6/2024");
    d1[2] = new donor("Parvi", 27, "Chandigarh", "B+ve", "30/9/2024");
    d1[3] = new donor("Satvik", 28, "lahore", "O+ve", "5/6/2023");
    d1[4] = new donor("Shagun", 30, "Patna", "A+ve", "23/6/2023");
    d1[5] = new donor("Shivin", 31, "Bangalore", "AB+ve", "3/2/2023");
    d1[6] = new donor("Alia", 33, "Mumbai", "B+ve", "15/8/2023");
```

```
d1[7] = new donor("Sonu", 34, "Vellore", "A+ve", "8/4/2023");
d1[8] = new donor("Champak", 39, "Nagpur", "O+ve", "20/1/2023");
d1[9] = new donor("Rahul", 40, "Chennai", "B+ve", "3/3/2024");
try {
  FileWriter writer = new FileWriter("donor.txt");
  for (int i = 0; i < 10; i++) {
    writer.write(d1[i].name + " " + d1[i].Age + " " + d1[i].Address + " " + d1[i].BloodGroup + " " + d1[i].last_donation_date + "\n");
  }
  writer.close();
} catch (IOException e) {
  System.out.println("An error occurred.");
  e.printStackTrace();
}
try {
  File myObj = new File("donor.txt");
  Scanner myReader = new Scanner(myObj);
  while (myReader.hasNextLine()) {
    String data = myReader.nextLine();
    String[] arr = data.split(" ");
    if (arr[3].equals("A+ve")) {
       String[] date = arr[4].split("/");
       int day = Integer.parseInt(date[0]);
       int month = Integer.parseInt(date[1]);
       int year = Integer.parseInt(date[2]);
       if (year == 2023 && month < 7) {
         System.out.println(data);
      }
    }
  }
  myReader.close();
} catch (Exception e) {
  System.out.println("An error occurred.");
  e.printStackTrace();
}
```

```
System.out.println("\nShifa Khan 21BBS0255");
}
```

## **OUTPUT**:

}

```
PS C:\Users\AMAAN KHAN\Desktop> cd "c:\Users\AMAAN KHAN\I
Shagun 30 Patna A+ve 23/6/2023
Sonu 34 Vellore A+ve 8/4/2023
Shifa Khan 21BBS0255
PS C:\Users\AMAAN KHAN\Desktop>
```

## **SCREENSHOT:**



