>> Group members

- Member 1
  - **Name:** Ahmed Bashir
  - **ID:** 191400105

- Member 2
  - **Name:** Haroon Liaqat
  - **ID:** 191400102

- Member 3
  - **Name:** Shehryar khan
  - **ID:** 191400071

Abstract class

Person

-cnic:String
-name: String
-address: String
-gender: String
- dob: String
- email:String
-phone:String

+Person()
+Persong(cnic,address,gender,dob,email,phone)
+setCnic(cnic:String): void
+setAddres(address:String): void
+setGender(dob:String): void
+setEmail(email:String):void
+setPhone(Phone:String): void
+getCnic(): String
+getAddres(): String
+getGender(): String
+getEmail():String
+getPhone(): String
+toString()
+equlas(c: object)

EXTENDS

EXTENDS

Blood_donor

-bloodtype:String
-blood_bank:Blood_Bank[]

+Blood_donor()
+Blood_donor(cnic:String, name:String, gender: Char, dob:String, email:String, phone: String)
+setBloodtype(bloodtype:String):void
+getBloodtype():String
+dislpay(): void
+rejisterBank():void
+displayBank():void
+updaredonor()
+equas(c:Object):Boolaean
+toString(): Sting

Patient

-hiv status: String

+Patient()
+Patient(-cnic: String , age: int , name: String , address: String , gender: Char , dob:String , email: String , phone: String , hiv status: String)
+sethHiv_Status(hiv_status:String):void
+getHiv_status(): String
+add_patient(): void
+update_patient(): void
+removePateint():void
+display(): void
+toString(): String
+eqauls(c:object):boolean

blood_bank

-blood_id: int
-name: String
- bloodp: Blood_Pouch[]
-donor:blood_donor[]
-otherbank:Other_blood_bank[]

+Blood_bank()
+Blood_bank(blood_id:int , name: String)
+setBlood_id(blood_id: int): void
+setBlood_type(name: String): void
+getId(): int
+getName(): String
+addbloodpouchs(Blood_pouc bp):void
+displayBloodpouchs():void
+addDonorinBank(Blood_Donor bd):void
+displaybloodDonors():void
+addOtherBloodBanks(Other_Blood_Bank ob):void
+displayotherbloodBanks():void
+SortingBloodpocuhs():void
+searching(key:String):boolean
+toString():String
+isEqual():boolean

1 contains *

Blood_pouch

- id: int
-type: String
-location: String
-cholesterol_level: int
-expiration_date: String

+Blood_pouch()
+Blood_pouch(id: int ,type: String ,location: String ,cholesterol_level: int, expiration date: String)
+ setId(int :id):void
+setType(type:String): void
+setLocation(location:String): void
+setCholestrol_level(cholesterol_level :int): void
+setExpiration_date(experation_dare :String): void
+ getId():int
+getType(): String
+getLocation(): String
+getCholestrol_level(): int
+getExpiration_date(): String
+add_blood_pouch
+remove_blood_pouch(): void
+display(): void
+to string():String
+updatePoucshs():void
+sort(): void
+eqauls(c:object);Boolean

Other_blood_bank

- id: int
-name: String
-address: String
-location: String
-focal_person: String
-contact: String

+Other_blood_bank()
+Other_blood_bank(id: int ,name: String ,address: String , location: int, focal_person: String,contact: String)
+ setId():void
+setName(name: String): void
+setAddress(address: String):void
+setLocation(location: String): void
+setFocal_person(focal_person: String): void
+setContact(contact: String): void
+getId():int
+getName(): String
+getAddress():String
+getLocation(): String
+getFocal_person(): String
+getContact(): Sting
+add_blood_bank(): void
+remove_blood_bank(): void
+update_blood_bank(): void
+toString():String
+isEqauls(c:object);Boolean