```
# include < iostroam.h >
# include < conio.h>
class prime
 int n.i. flag;
 public :
 void check ()
  flag = 0;
  cout << "In entre any number";
  cin >> n i
  for (i=2; i<n; i++)
 if (n / i = = 0)
  flag = 1;
   break;
 if ( flag == 1 )
 cout « "In number is not prime ";
 else
 cout « "In number is prime ";
  void main ()
   closer ();
   prime obji
   obj. check ();
  getch ();
```

```
# include < iostream.h >
# include < conjo.h >
 void swap (int &, int y)
  int ti
 cout « " before swaping = It " « æ « " It " « y ;
   4 = 20;
   æ = y ;
 cout « "In after swaping = It" « Re « "It" « y;
  void swap ( float &, float y)
   float +;
  cout « "before swaping It " « & « " It " « y;
  + = æ ;
   2 = y j
    y = t ;
  cout << "In after swaping It" << & << "It" << y;
  void main ()
   float chi, cha;
   int a, b;
   clrscr ();
  cout « "In entre the two float no ";
   cin >> ch1 >> ch2;
   swap (chi, cha);
   cout « "In Entre the two no. In";
   cin >> a >> b ;
   swap (a, b);
   getch ();
```

```
# include < iostream . h >
# include < conio h >
closs demo
public:
 int a,b,c;
  demo ()
 Q = 10 j
 b = 20 i
void print ()
cout << " Hello, Good Morning ";
cout << " \n a = " << a << " \n b = " << b ;
 void main ()
 drscr ();
 demo obji
 obj . print ();
 getch ();
```

```
# include < iostream. h >
# include < conio. h >
 closs cons
public :
 (ONS ()
 cout « "This is the constructor function ";
 cout < " This function is used to initialise
      the variable ";
~ cons ()
 cout « "In This is the Destructor Function In";
 cout « "This is used to destroy the memory
 void main ()
  drscr ();
   cons ()
   f. COAS ();
  getch ();
```

```
# include < iostreom. h >
# include < conio . h >
  class A
  int a bi
  void getdata ()
  cout « "In entre value of a & b ";
   cin >> a >> b;
 class B: public A
  int c, d;
  public : void cal ()
  C = a+b;
   cout << "In addition is " << c;
  d = a - b ;
  cout « "In substraction is " « d;
7;
void main ()
  clrscr ();
  B obj;
  obj. getdata ();
  obj. col();
 getch ();
```

```
# include < iostream.h >
# include < conio h >
   closs A
   public : void show 1 ()
    cout « "This is the Bose 1 closs \n";
   class B
   public: void show 2 ()
   cout << "This is the Bose 2 class \n";
  closs c: public A, public B =
 public : void show 3 ()
  cout << "This is the Derived from class A
              & closs B 17";
3;
  void main ()
  clrscr ();
  c obji
 obj. show! ();
 Obj · show 2 ())
 obj · show 3 ();
 getch ();
```

```
# include < iostream. h>
# include < conio . h >
 class complex
  int a,b;
  public : void get value ()
   cin >> a >> b;
  void display ()
   cout << a << " + " << b << " ; " << " in";
   Triend complex operator + 1 complex obp,
                     complex ab );
  complex operator + 1 camplex ob, complex ob
   complex + ;
   t.a = obp.a + ob.a;
   t.b = obp.b + ob.b;
    rotun (+);
 void main ()
   clisci ();
    complex obj1, obj2, res;
    cout << "in enter 1st complex no.";
   obji . get value ();
    cout « "In enter and complex no. ";
   · obj 2 · getvalue ();
    rps = obj1 + obj2;
    cout « "in Result ";
    res display ();
    getch ();
```

```
# include < iostream h >
# include < conio h>
 class complex
  int a.b;
  public : void getvalue ()
   cin >> a >> b;
 complex operator + ( camplex ob )
  complex +;
  t.a = a + ob.a;
   t.b = b + ob.b;
   return (t);
 1 void
 void display ()
  cout « "complex number is = It";
  cout « a « " + " « b « " i " « " In ";
3;
void main ()
 closer ();
 complex obj 1 , obj 2 , res :
 cout «"In Entre 1st complex no "";
 obji getvalue ();
 obji · display ();
  cout «" in entre and complex no.";
  obja. getvalue ();
  cojo. display ();
  103 = obj 1 + obj 2;
  cout « "In Result = ";
  res display ();
 getch ();
```

```
# include < iostream.h>
# include < conio.h>
 closs two;
  class one
  private:
    int data 1;
  public :
    void setdata (int init)
     data 1 = init;
  friend int add -- both (one a, two b);
  closs two
    private:
       int data 2;
    public :
       void setdata (int init)
      data 2 = init i
 friend int add - both (one a, two b);
  int add both ( one a , two b)
  return a. data 1 + b. data 2
```

void mai	()					
1						
clrscr ()	)					
one ai						
two bi						
a. set	da (5)	/				
	lata (10);					
	sum of		L	two	:-	\t " <
			_	both	(	0,6);
getch (	) ;					
3 1						

```
# include < iostream . h >
# include < conio - h >
class boy
private :
 int income 1;
  int income 2;
public:
  void setdata ( int in1, int in2)
  income 1 = in 1;
    income 2 = in 2;
  friend class girl;
  closs girl
  int income;
  public :
    int girl func ( boy bi)
   return bi. income 1 + bi. income 2 ;
   void setdata (int in)
    income = in;
   void show ()
   boy bis
   b1. setdata (100, 200);
```

```
cout « "boys Income 1 in show (); 't "
       < bi. income 1 << endl;
cout « girls Income 2 in show (): 1+ "
      << income << endl;
 void main ()
  clrscr ();
  boy bi;
  girl g1 j
  b1. sétdata (500,1000);
 gl. setdota (300);
  cout « " boy by total income : It " «
     g1. girl func (b1) « end);
   g1. show ();
   getch ();
```

```
# include < iostream.h >
# include < conjo h > -
closs stud
 public : virtual void display ()
    cout « "In student data will be displayed
 class college : public stud
    public : void display ()
     cout «"1" collège data ";
 void main ()
  clisci ();
   stud s ;
   s. display ();
   stud *p;
   college obj ;
   p = & obj ;
   p -> display ();
   getch () i
```

```
# include < jostream h >
# include < conio h >
template ( class T >
 T min (Ta, Tb)
  if ( a < b )
  return a ;
  0/80
   return b;
void main ()
   cliser ()
   int 1. ; ;
   cout << " In Enter integer values ";
   cin » i » ji
   cout « end « " min of two integers = " «
                         min (1,1);
   float a , b ;
  cout « " In Entrer float values ";
   cin >> a >> b;
   cout « end « " min of two float numbers =
       "«min (a,b);
   getch ();
```