return 0;

```
Q.I. write a program to implement GCD (greatest common divisor) using
the algorithms.
a) Euclid's algorithm
#include
int gcd_algorithm(int b, int y) {
 if (y == 0) §
 return p;
else if (p >= y ++ y > 0) {
       return gcd_algorithm(y, (> 6 y));
int main(void) {
int num1, num2, gcd;
printf("\nenter two numbers: ");
 scanf("GdGd", Inum1, Inum2);
 gcd = gcd_algorithm(num1, num2);
if (gcd)
printf("In The GCD of Gd and Gd is GdIn", num1, num2, gcd);
else
printf("\nInvalid Input\n");
```

```
3
```

```
(b) consecutive integer checking algorithm
#include
int gcd(int a,int b)
if (a == 0)
      return b;
if (b == 0)
    return as
if(a==b)
   return as
if (a > b)
 return gcd(b, (aGb));
return gcd(a, (bGa));
int main() {
int ab;
 printf("Enter two numbers: ");
 scanf("GdGd", Ja, Jb);
  printf("gcd is Gd",gcd(a,b));
   return 0;
```