**PRACTICAL - 02**

**Code:**

// Ashwin Navange A-38 CSE

#include<bits/stdc++.h>

using namespace std;

int d, x, y;

void extendedEuclid(int A, int B)

{

if(B == 0) {

d = A;

x = 1;

y = 0;

} else {

extendedEuclid(B, A%B);

int temp = x;

x = y;

y = temp - (A/B)\*y;

}

}

int main( )

{

cout << "Ashwin Navange A-38 CSE" << endl;

int a,b;

cout<<"Enter the Numbers: ";

cin >> a >> b;

extendedEuclid(a, b);

cout <<"The GCD of " << a << " and " << b << " is "<< d << endl;

cout <<"Coefficients x and y are "<< x <<" and "<< y << endl;

return 0;

}

**Output:**

