INTRODUCTION TO CRYPTOGRAPHY – PROJECT 1

B.Tech. Computer Science and Engineering (Cybersecurity)

|  |  |
| --- | --- |
| Name: Anish Sudhan Nair | Roll No.: K041 |
| Batch: K2/A2 | Date of performance: 25/12/2021 |

**Code:**

Language: C

Editor: VSCode

Compiler: clang/ZSH

#include <stdio.h>

void main()

{

int arr1[7],u,v, temp\_u1,temp\_u2,temp\_u3;

printf("Enter the greater number: ");

scanf("%d", &u);

printf("Enter the lesser number: ");

scanf("%d", &v);

arr1[0]=1;

arr1[1]=0;

arr1[2]=0;

arr1[3]=1;

arr1[4]=u;

arr1[5]=v;

arr1[6]=0;

for (int i=0;i<7;i++)

printf("%d\t", arr1[i]);

printf("\n");

while (arr1[5]!=0)

{

arr1[6]=arr1[4]/arr1[5];

temp\_u1=arr1[1];

temp\_u2=arr1[3];

temp\_u3=arr1[5];

arr1[1]=arr1[0]-(arr1[6]\*arr1[1]);

arr1[3]=arr1[2]-(arr1[6]\*arr1[3]);

arr1[5]=arr1[4]-(arr1[6]\*arr1[5]);

arr1[0]=temp\_u1;

arr1[2]=temp\_u2;

arr1[4]=temp\_u3;

for (int i=0;i<7;i++)

printf("%d\t", arr1[i]);

printf("\n");

}

}

**Test Cases:**

1. 28056, 3032
2. 48432, 47376

**Output:**

