**Bangabandhu Sheikh Mujibur Rahman Science &**

**Technology University**

**Structured Programming Language**

**Topic: ADDING TWO BIG NUMBERS**

**Submitted By:**

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**#include <stdio.h>**

**#include<string.h>**

**int main()**

**{**

**char a[100], b[100],c[101];**

**int i, k = 0, first\_array\_lenth, second\_array\_lenth, sum, carry = 0;**

**printf(" Enter the 1st number ");**

**scanf("%s",a);**

**printf(" Enter the 2nd number ");**

**scanf("%s",b);**

**first\_array\_lenth = strlen(a)-1;**

**second\_array\_lenth = strlen(b)-1;**

**if(first\_array\_lenth>=second\_array\_lenth)**

**i=first\_array\_lenth;**

**else**

**i=second\_array\_lenth;**

**i+=1;**

**while (i--)**

**{**

**if(first\_array\_lenth<0)**

**sum=b[second\_array\_lenth--] + carry-48;**

**else if(second\_array\_lenth<0)**

**sum= a[first\_array\_lenth--] + carry-48;**

**else**

**sum = a[first\_array\_lenth--] + b[second\_array\_lenth--] + carry-96 ;**

**carry = sum / 10;**

**c[k++] = sum % 10;**

**if (i <0 )break;**

**}**

**if(!carry)**

**k--;**

**else**

**c[k] = carry;**

**printf("The sum of this two number is = ");**

**for (i = k;i >= 0;i--)**

**printf("%d", c[i]);**

**printf("\n\n\n\n");**

**return 0;**

**}**