**10.Full adder**

**;**

**Program:**

#include <stdio.h>

typedef char bit;

bit Cout=0;

bit fulladd(bit A ,bit B,bit Cin){

Cout=(A&B)||(Cin&(A^B));

return (A^B)^Cin;

}

int main()

{

int i,j,k;

int result;

printf("A B Cin | S Cout\n");

for(i=0;i<2;i++)

{

for(j=0;j<2;j++)

{

for(k=0;k<2;k++)

{

result=fulladd(i,j,k);

printf("%d %d %d | ",i,j,k);

printf("%d %d\n",result,Cout);

}

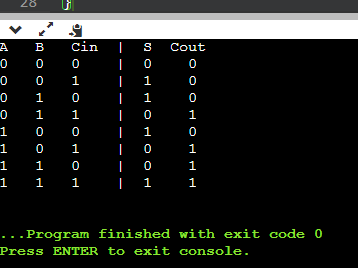
}

}

return 0;

}

**Output:**

****