**WAP to find HCF & LCM of 'n' integers**

**#include <conio.h>**

**int main()**

**{**

**long long int i,j,n,a,b,c,d;**

**printf("\n\t\t\t\tTo find HCF & LCM of 'n' integer numbers enter 'n'. ");**

**scanf("%lli",&n);**

**long long int number[n];/\*contains all input numbers\*/**

**for(i=0; i<n; i++)**

**{**

**printf("\n\t\t\t\tEnter %lli th number: ",i+1);**

**scanf("%lli",&number[i]);**

**}**

**a = number[0];**

**b = number[0];**

**for(i=0; i<n; i++)**

**{**

**if (b>number[i]) b=number[i];/\*find smallest number in array\*/**

**if (a<number[i]) a=number[i];/\*find greatest number in array\*/**

**}**

**c=0;**

**j=b;**

**do**

**{**

**d=0;**

**for(i=0; i<n; i++)**

**{**

**if (number[i]%j!=0) break;**

**else d++;**

**}**

**if (d==n)**

**{**

**printf("------------------------------------------------------------------------------------------------------------------------------------------------------------------------");**

**printf("\n\t\t\t\tHCF = %lli\n",j);**

**printf("------------------------------------------------------------------------------------------------------------------------------------------------------------------------");**

**c=1;**

**}**

**j--;**

**}**

**while(c!=1);**

**c=0;**

**j=1;**

**do**

**{**

**b=0;**

**for(i=0; i<n; i++)**

**{**

**if ((a\*j)%number[i]!=0) break; /\*In LCM n1\*a1=n2\*a2=n3\*a3.\*/**

**else b++;**

**}**

**if (b==n)**

**{**

**printf("\n\t\t\t\tLCM = %lli\n",a\*j);**

**printf("------------------------------------------------------------------------------------------------------------------------------------------------------------------------");**

**c=1;**

**}**

**j++;**

**}**

**while(c!=1);**

**}**