**WAP to find all prime factors of a number.**

**#include <stdio.h>**

**#include <math.h>**

**int main()**

**{**

**long long int a,b,c=2,i;**

**printf("\n\t\t\t\tTo find prime factors of a number enter the number: ");**

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

**printf("\n\t\t\t\tPrime factors are: \n");**

**if (a%2==0) b=a/2;**

**else b=(a-1)/2;**

**for(i=0; i<=b; i++)/\*find prime factorization of all numbers in array (Unique factorization)\*/**

**{**

**if (a%c==0)**

**{**

**a=a/c;**

**printf("\t\t\t\t\t\t%lli\n",c);**

**c=1;/\*find repeated prime factor (Unique factorization)\*/**

**}**

**c++;**

**if (a==1) break;**

**}**

**return 0;**

**}**