MATHS

#include <iostream>

using namespace std;

int power(int x,int n){

double ans=1;

int m=n;

while(n>0){

if(n%2!=0){

ans=ans\*x;

n=n-1;

}

else{

n=n/2;

x=x\*x;

}

if(m<0) ans=1.0/(ans);

}

return ans;

}

int main()

{

int a,b;

cin>>a>>b;

cout<<"the power is: "<<power(a,b);

    return 0;

}

POWER EXPONENTION

**PRIME FACTOR**

#include <bits/stdc++.h>

using namespace std;

int primeFactor(int n){

int prime[n+1];

for(int i=2;i<=n;i++){

prime[i]=1;

}

for(int i=2;i\*i<=n;i++){

if(prime[i]==1){

for(int j=i\*i;j<=n;j+=i){

prime[j]=0;

}

}

}

for(int i=2;i<=n;i++){

if(prime[i]==1){

cout<<i<<" ";

}

}

}

int main()

{

int x;

cin>>x;

primeFactor(x);

    return 0;

}