Q 1)

#include<iostream>

using namespace std;

int main()

{

int n,i,count=0;

cout<<"enter a number ";

cin>>n;

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

{

if(n%i==0)

{

count++;

break;

}

}

if (count>0)

{

cout<<"Composite number"<<endl;

cout<<"factors: ";

for(i =1;i<n;i++)

{

if(n%i==0)

{

cout<<i<<",";

}

}

}

else{

cout<<"Prime number"<<endl;

int x=n+1;

int check=0;

while(check==0)

{

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

{

if(x%i==0)

{

x=x+1;

check=0;

break;

}

else

{

check=1;

}

if(check==1){

cout<<"next prime no.= "<<x;

break;

}}

}

return 0;

}}