ASSIGNMENT 4 HCF & LCM of 3 integers.

DATE: 22/03/2021 Monday

```
CODE:
#include<iostream>
using namespace std;
int lcm(int, int, int);
int hcf(int, int, int);
int main()
{
     int a,b,c;
     cout<<"Enter 1st number: ";
     cin>>a;
     cout<<"Enter 2nd number: ";
     cin>>b;
     cout<<"Enter 3rd number: ";
     cin>>c;
     cout<<"LCM of "<<a<<","<<b<<","<<c<" is = "<<lcm(a,b,c)<<endl;
     cout<<"HCF of "<<a<<","<<b<<","<<c<" is = "<<hcf(a,b,c)<<endl;
     return 0;
}
int lcm(int x,int y, int z)
{
     long max,lcom, count, flag=0;
     if(x>=y\&\&x>=z)
          max=x;
     else if(y >= x \& y >= z)
          max=y;
     else if(z >= x \& z >= y)
          max=z;
     for(count=1;flag==0;count++)
          lcom=max*count;
          if(lcom%x==0 && lcom%y==0 && lcom%z==0)
         {
               flag=1;
     }
```

OUTPUT:

```
Enter 1st number: 2
Enter 2nd number: 3
Enter 3rd number: 4
LCM of 2,3,4 is = 12
HCF of 2,3,4 is = 1

...Program finished with exit code 0
Press ENTER to exit console.
```