Aim: To write a program to calculate HCF & LCM of the given number according to given choice

Source Code:

```
// program to calculate HCF and LCM
#include <iostream.h>
#include <conio.h>
#include cess.h>
void main()
   clrscr();
    int lcm, hcf, n1, n2, ans;
    char ch;
    cout<<"-----\
n";
    cout<<"
                             Harshit program
\n";
    cout<<"-----\
n";
    do{
         cout << "\n\n(1).....for LCM \n";
         cout << "(2).....for HCF \n";
         cout << "(3)..... for exit \n";
         cout << "Enter Your Choice : ";</pre>
         cin >> ans;
         if (ans ==1)
              cout << "\nEnter N1 and N2 : ";</pre>
              cin >> n1 >> n2;
              if (n1 < n2)
                   for (int i = n1; i >= 1; i--)
                   if (n1%i==0 && n2%i==0)
                        lcm = i*(n1/i) * (n2/i);
                        cout << "LCM = " << lcm;
                        break;
                   }
              else if (n2 < n1)
                   for (int i = n2; i >= 1; i--)
                   if (n1\%i==0\&\&n2\%i==0)
                        lcm = i*(n1/i) * (n2/i);
                        cout << " Lcm=" <<lcm;</pre>
                        break;

    Page 19 -

              else
```

```
lcm = n1;
                 cout << lcm;
           if (ans ==2)
                 cout<< "\nEnter the No1 and No 2 \n ";</pre>
                 cin >> n1 >> n2;
                 if (n1 > n2)
                       for (int i = n1; i>= 1; i --)
                       if (n1 \% i == 0 \&\& n2 \% i == 0)
                             hcf = i;
                             cout << "HCF = " << hcf;
                             break;
                       }
                 }
                 if (n2 < n1)
                       for (int i = n2; i >= i; i--);
                       if( n1% i ==0 && n2 % i ==0)
                       {
                             hcf = i;
                             cout << "hcf = " << hcf;</pre>
                             break;
                       }
                 }
                 else
                      hcf = n1;
                  {
                       cout << "hcf = " << hcf;</pre>
           if (ans == 3)
                exit(0);
           cout << "\nDo you want to continue (Y/N) :";</pre>
           cin >> ch;
            while(ch=='Y');
}
```

Output:

- Page 19 -



