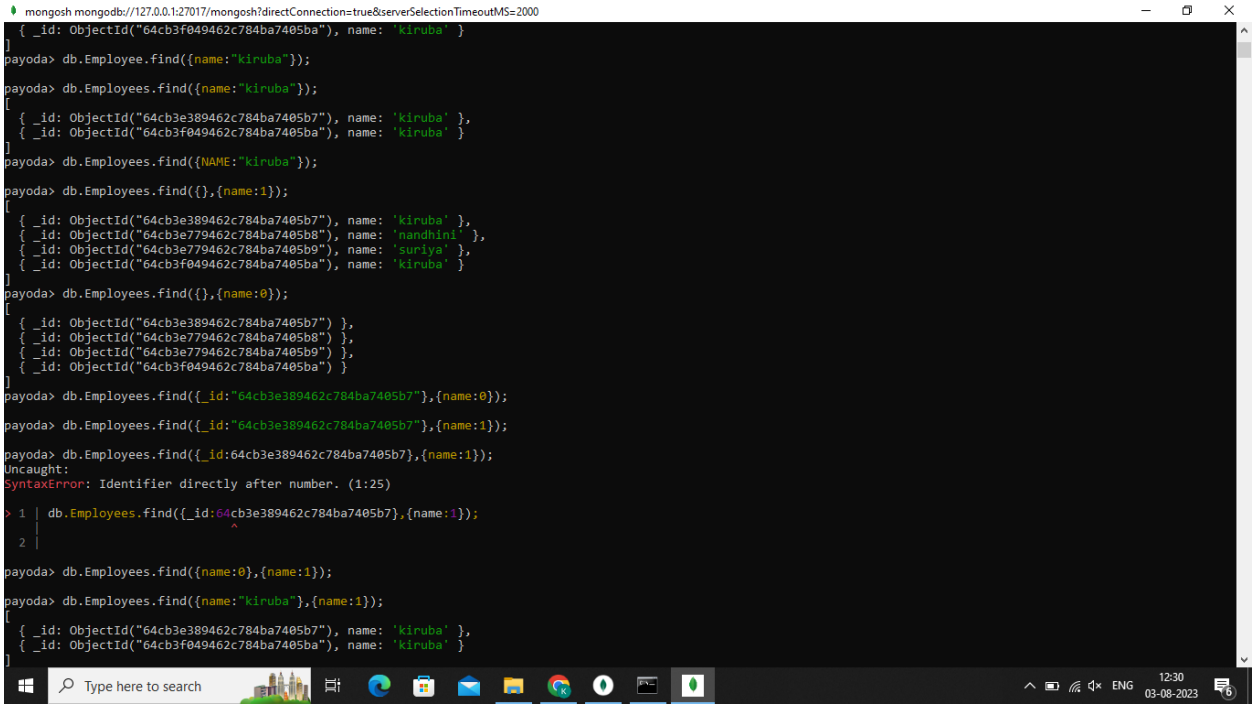
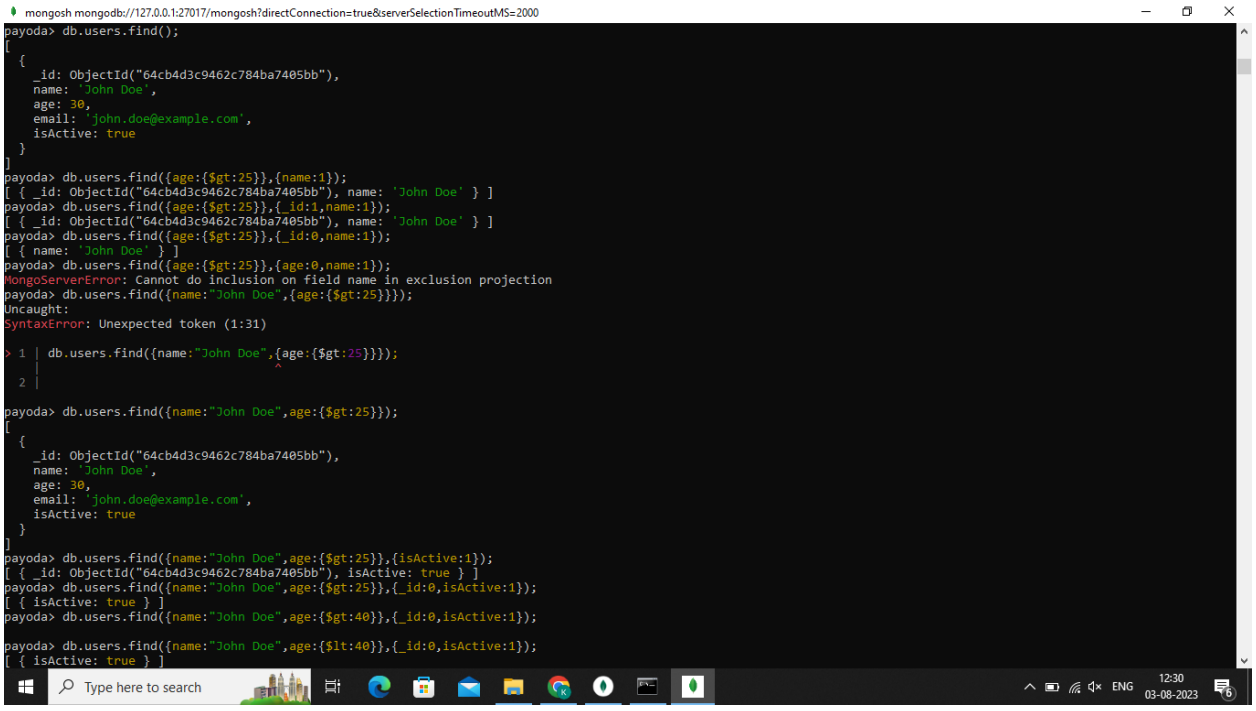
DAY4-MONGODB-03/08/2023

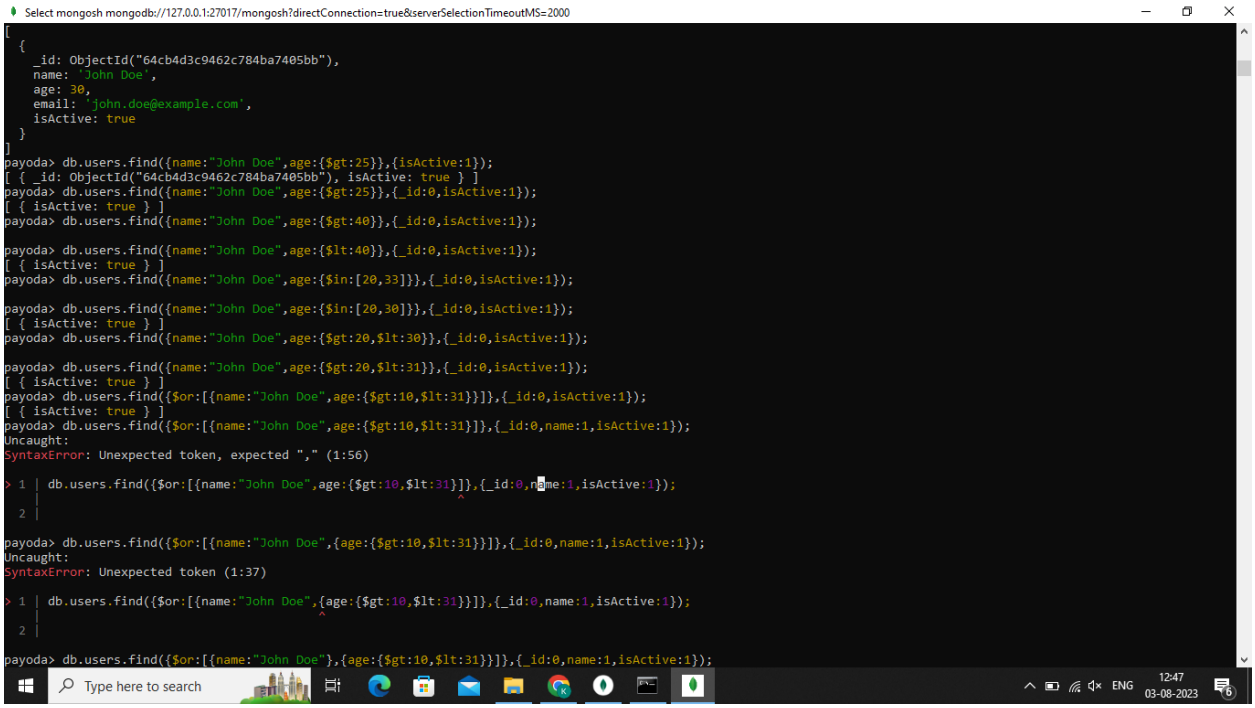
TASK1: Queries for creating,updating,modify the data in mongodb



```
mongosh mongodb://127.0.0.1:27017/mongosh?directConnection=true&serverSelectionTimeoutMS=2000
  { _id: ObjectId("64cb3f049462c784ba7405ba"), name: 'kiruba' }
]
payoda> db.Employee.find({name:"kiruba"});

payoda> db.Employees.find({name:"kiruba"});
[
  { _id: ObjectId("64cb3e389462c784ba7405b7"), name: 'kiruba' },
  { _id: ObjectId("64cb3f049462c784ba7405ba"), name: 'kiruba' }
]
payoda> db.Employees.find({NAME:"kiruba"});

payoda> db.Employees.find({},{name:1});
[
  { _id: ObjectId("64cb3e389462c784ba7405b7"), name: 'kiruba' },
  { _id: ObjectId("64cb3e779462c784ba7405b8"), name: 'nandhini' },
  { _id: ObjectId("64cb3e779462c784ba7405b9"), name: 'suriya' },
  { _id: ObjectId("64cb3f049462c784ba7405ba"), name: 'kiruba' }
]
payoda> db.Employees.find({},{name:0});
[
  { _id: ObjectId("64cb3e389462c784ba7405b7") },
  { _id: ObjectId("64cb3e779462c784ba7405b8") },
  { _id: ObjectId("64cb3e779462c784ba7405b9") },
  { _id: ObjectId("64cb3f049462c784ba7405ba") }
]
payoda> db.Employees.find({_id:"64cb3e389462c784ba7405b7"},{name:0});

payoda> db.Employees.find({_id:"64cb3e389462c784ba7405b7"},{name:1});

payoda> db.Employees.find({_id:64cb3e389462c784ba7405b7},{name:1});
Uncaught:
SyntaxError: Identifier directly after number. (1:25)

> 1 | db.Employees.find({_id:64cb3e389462c784ba7405b7},{name:1});
    |                         ^
  2 |

payoda> db.Employees.find({name:0},{name:1});

payoda> db.Employees.find({name:"kiruba"},{name:1});
[
  { _id: ObjectId("64cb3e389462c784ba7405b7"), name: 'kiruba' },
  { _id: ObjectId("64cb3f049462c784ba7405ba"), name: 'kiruba' }
]
```



```
mongosh mongodb://127.0.0.1:27017/mongosh?directConnection=true&serverSelectionTimeoutMS=2000
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4d3c9462c784ba7405bb"),
    name: 'John Doe',
    age: 30,
    email: 'john.doe@example.com',
    isActive: true
  }
]
payoda> db.users.find({age:{$gt:25}},{name:1});
[ { _id: ObjectId("64cb4d3c9462c784ba7405bb"), name: 'John Doe' } ]
payoda> db.users.find({age:{$gt:25}},{_id:1,name:1});
[ { _id: ObjectId("64cb4d3c9462c784ba7405bb"), name: 'John Doe' } ]
payoda> db.users.find({age:{$gt:25}},{_id:0,name:1});
[ { name: 'John Doe' } ]
payoda> db.users.find({age:{$gt:25}},{age:0,name:1});
MongoServerError: Cannot do inclusion on field name in exclusion projection
payoda> db.users.find({name:"John Doe",{age:{$gt:25}}});
Uncaught:
SyntaxError: Unexpected token (1:31)

> 1 | db.users.find({name:"John Doe",{age:{$gt:25}}});
    |                                ^
  2 |

payoda> db.users.find({name:"John Doe",age:{$gt:25}});
[
  {
    _id: ObjectId("64cb4d3c9462c784ba7405bb"),
    name: 'John Doe',
    age: 30,
    email: 'john.doe@example.com',
    isActive: true
  }
]
payoda> db.users.find({name:"John Doe",age:{$gt:25}},{isActive:1});
[ { _id: ObjectId("64cb4d3c9462c784ba7405bb"), isActive: true } ]
payoda> db.users.find({name:"John Doe",age:{$gt:25}},{_id:0,isActive:1});
[ { isActive: true } ]
payoda> db.users.find({name:"John Doe",age:{$gt:40}},{_id:0,isActive:1});

payoda> db.users.find({name:"John Doe",age:{$lt:40}},{_id:0,isActive:1});
[ { isActive: true } ]
```

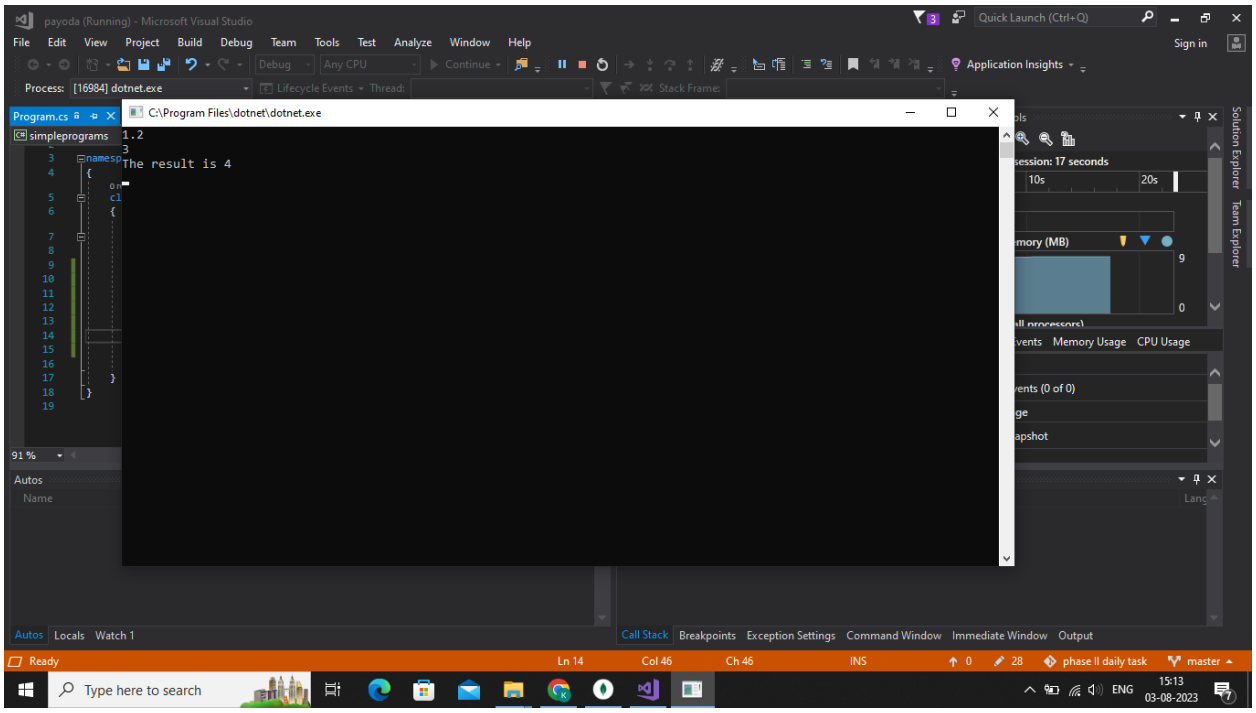

Select mongosh mongodb://127.0.0.1:27017/mongosh?directConnection=true&serverSelectionTimeoutMS=2000
[
{
_id: ObjectId("64cb4d3c9462c784ba7405bb"),
name: 'John Doe',
age: 30,
email: 'john.doe@example.com',
isActive: true
}
]
payoda> db.users.find({name:"John Doe",age:{$gt:25}},{isActive:1});
[{ _id: ObjectId("64cb4d3c9462c784ba7405bb"), isActive: true }]
payoda> db.users.find({name:"John Doe",age:{$gt:25}},{_id:0,isActive:1});
[{ isActive: true }]
payoda> db.users.find({name:"John Doe",age:{$gt:40}},{_id:0,isActive:1});
payoda> db.users.find({name:"John Doe",age:{$lt:40}},{_id:0,isActive:1});
[{ isActive: true }]
payoda> db.users.find({name:"John Doe",age:{$in:[20,33]}},{_id:0,isActive:1});
payoda> db.users.find({name:"John Doe",age:{$in:[20,30]}},{_id:0,isActive:1});
[{ isActive: true }]
payoda> db.users.find({name:"John Doe",age:{$gt:20,$lt:30}},{_id:0,isActive:1});
payoda> db.users.find({name:"John Doe",age:{$gt:20,$lt:31}},{_id:0,isActive:1});
[{ isActive: true }]
payoda> db.users.find({$or:[{name:"John Doe",age:{$gt:10,$lt:31}}]},{_id:0,isActive:1});
[{ isActive: true }]
payoda> db.users.find({$or:[{name:"John Doe",age:{$gt:10,$lt:31}}]},{_id:0,name:1,isActive:1});
Uncaught:
SyntaxError: Unexpected token, expected "," (1:56)
> 1 | db.users.find({$or:[{name:"John Doe",age:{$gt:10,$lt:31}}]},{_id:0,name:1,isActive:1});
| ^
2 |
payoda> db.users.find({$or:[{name:"John Doe",{age:{$gt:10,$lt:31}}]},{_id:0,name:1,isActive:1});
Uncaught:
SyntaxError: Unexpected token (1:37)
> 1 | db.users.find({$or:[{name:"John Doe",{age:{$gt:10,$lt:31}}]},{_id:0,name:1,isActive:1});
| ^
2 |
payoda> db.users.find({$or:[{name:"John Doe"},{age:{$gt:10,$lt:31}}]},{_id:0,name:1,isActive:1});
Type here to search
ENG
12:47
03-08-2023

Practice problems:C# sharp programs

Problem 1:addition of two numbers

```
namespace simpleprograms
{
   class Program
   {
      static void Main(string[] args)
      {
         double num1, num2;
         int res;
         num1 = Convert.ToDouble(Console.ReadLine());
         num2 = Convert.ToDouble(Console.ReadLine());
         res =(int)( num1 + num2);
         Console.WriteLine(res);
         Console.ReadLine();
      }
   }
}
```

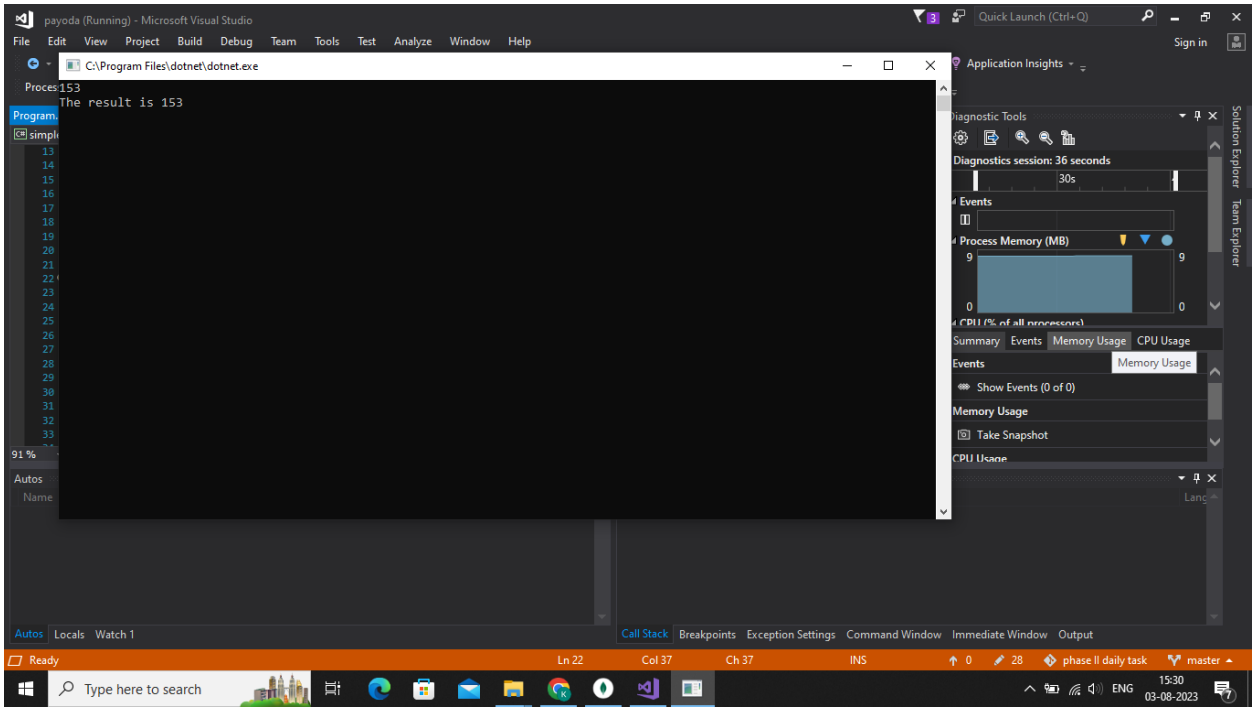
OUTPUT:



Problem 2:armstrong number

```
int num, sum = 0,rem,number;
        num = Convert.ToInt32(Console.ReadLine());
        number = num;
        while(num>0)
        {
            rem = num % 10;
            sum =rem*rem*rem+sum;
            num = num / 10;
        }
        if (sum == number)
        {
            Console.WriteLine("The result is " + sum);

        }
        else
        {
            Console.WriteLine("not arm");
        }
        Console.ReadLine();
    }
```

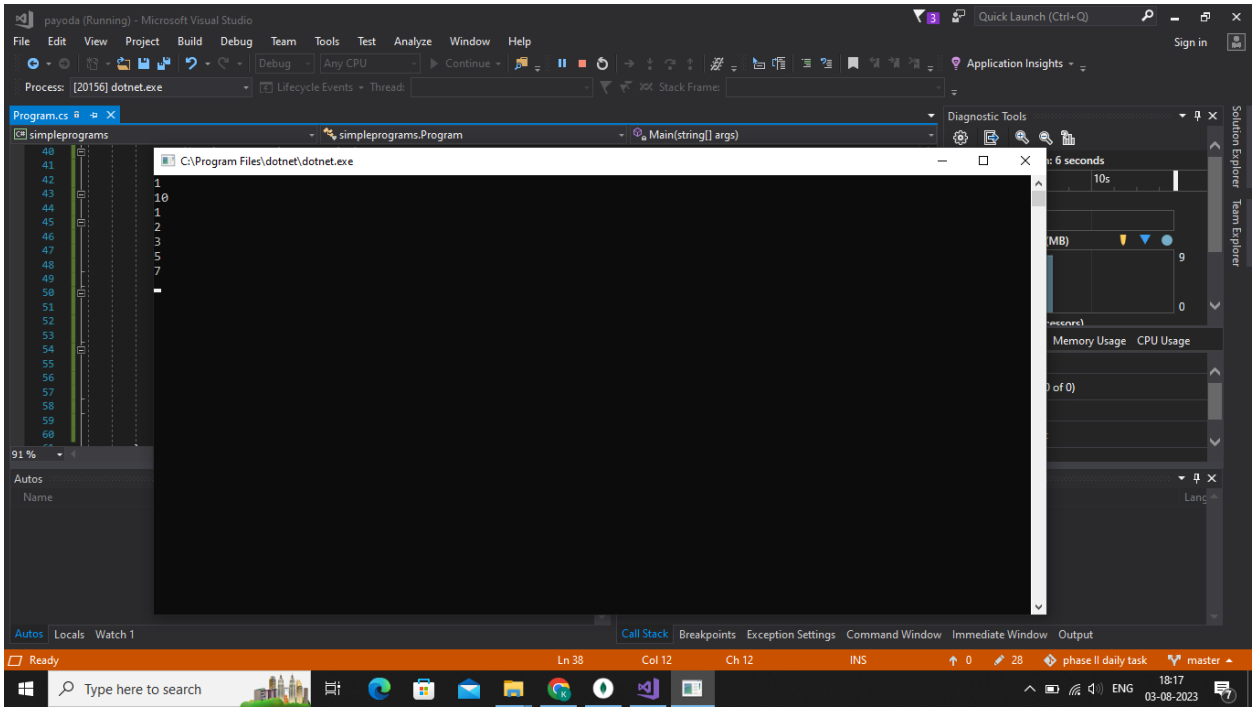
OUTPUT:



Program 3:prime number

```
int start, end;
 start = Convert.ToInt32(Console.ReadLine());
 end = Convert.ToInt32(Console.ReadLine());
 for (int i = start; i <= end; i++)
 {
    int count = 0;
    for (int j = 1; j <= i / 2; j++)
    {
       if (i % j == 0)
       {
          count++;
       } }
    if (i == 1)
    {
       Console.WriteLine(i);
    }
    if (count == 1)
    {
       Console.WriteLine(i);
    } }
```

Output



Program 4: Real number

```
int num, sum = 0;
        num = Convert.ToInt32(Console.ReadLine());
        for (int i = 1; i <= num / 2; i++)
        {
            if (num % i == 0)
            {
                sum += i;
            }
        }

        if (sum == num)
        {
            Console.WriteLine("Perfect Number");
        }
        else
        {
            Console.WriteLine(" Not an Perfect Number");
        }
        Console.ReadLine();
```

OUTPUT: