

Question 1 : find the given number is prime or not

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```
class Scratch {
    public static boolean isprime(int num){
        for (int i = 2 ; i<num ; i++){
            if (num%i==0) {
                System.out.println("number is not prime");
                return false;
            }
        }
        System.out.println("number is prime");
        return true;
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int num = sc.nextInt();
        System.out.println(isprime(num));
    }
}
```

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Question 2 : print pairs of prime numbers of given range

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```
class Scratch {
    public static boolean isprime(int num){
        for (int i = 2 ; i<num ; i++){
            if (num%i==0) {
                return false;
            }
        }
        return true;
    }
    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        System.out.println("enter the 1st number");
        int num1 = sc.nextInt();

        Scanner sc2 = new Scanner(System.in);
        System.out.println("enter the 2nd number");
        int num2 = sc2.nextInt();

        for (int i = num1; i < num2; i++) {
            if (isprime(i) && isprime(i+2)){
                System.out.println("pair of prime numbers found : "+i+ " , "+(i+2));
            }
        }

    }
}
```