

```
//JAVA PROGRAM TO DISPLAY FACTORS OF A GIVEN NUMBER
```

```
public class Test{
    public static void main(String[] args) {

        System.out.println("Enter any number: ");
        Scanner sc=new Scanner(System.in);
        int n;
        n=sc.nextInt();

        for(int i=1;i<=n;i++){
            if(n%i==0) {
                System.out.println(i+" ");
            }
        }
    }
}
```

```
//JAVA PROGRAM TO CHECK GIVEN NUMBER IS PALINDROME OR NOT
```

```
class Test{
    public static void main(String[] args) {
        System.out.println("enter any number:");
        Scanner sc=new Scanner(System.in);
        int n,r,s=0,c;
        n=sc.nextInt();
        c=n;

        while(n>0) {
            r=n%10;
            s=(s*10)+r;
            n=n/10;
        }
        if(c==s) {
            System.out.println("Palindrome number");
        }
        else {
            System.out.println("Not Palindrome number");
        }
    }
}
```

```
//JAVA PROGRAM TO CHECK GIVEN NUMBER IS ARMSTRONG OR NOT
```

```
public class Test{
    public static void main(String[] args) {

        int n,r,sum=0,c;
        System.out.println("Enter any number:");
```

```

Scanner sc=new Scanner(System.in);
n=sc.nextInt();
c=n;

while(n>0) {
    r=n%10;
    sum=sum+(r*r*r);
    n=n/10;
}
if(c==sum) {
    System.out.println("Armstrong number");
}
else {
    System.out.println("Not an Armstrong number");
}
}

```

//JAVA PROGRAM TO CHECK GIVEN NUMBER IS PERFECT OR NOT

```

class Test{
    public static void main(String[] args) {
        System.out.println("Enter any number:");
        Scanner sc=new Scanner(System.in);
        int n,sum=0;
        n=sc.nextInt();

        for(int i=1;i<n;i++) {
            if(n%i==0) {
                sum=sum+i;
            }
        }
        if(sum==n) {
            System.out.println("perfect number");
        }
        else {
            System.out.println("not perfect number");
        }
    }
}

```

//JAVA PROGRAM TO DISPLAY SUM OF DIGITS OF A GIVEN NUMBER

```

class Test{
    public static void main(String[] args) {
        int n;
        int r,sum=0;
        System.out.println("enter any number:");
        Scanner sc=new Scanner(System.in);
        n=sc.nextInt();

        while(n>0) {

```

```
        r=n%10;
        sum=sum+r;
        n=n/10;
    }
    System.out.println("Sum of digits "+sum);
}
```