

Using Constructor-

1.Arithmetic Operation

2.Armstrong Program

3.Prime no between 1 to 100

```
import java.util.Scanner;

class arithmetic_operation {

    int no1,no2;
    int n;
    int num,i;

    arithmetic_operation(int a,int b)
    {
        Scanner sc=new Scanner(System.in);
        no1=a;
        no2=b;

        System.out.println("The Addition of " +no1+ " And " +no2+ " is :"+
+(no1+no2));
        System.out.println("\nThe Subtraction of " +no1+ " And " +no2+ "
is :"+(no1-no2));
        System.out.println("\nThe Multiplication of " +no1+ " And " +no2+
" is :"+(no1*no2));
        System.out.println("\nThe Division of " +no1+ " And " +no2+ " is
:" +(no1/no2));
        System.out.println("\nThe Modulus of " +no1+ " And " +no2+ " is
:" +(no1%no2));
    }
}

class prime {

    int i,j,count=0;

    prime() {

        System.out.println("\nPrime Number between 1 to 100 :");

        for(i=2;i<=100;i++)
        {
            for(j=1;j<=i;j++)
            {
                if(i%j==0)
                    count++;
            }
            if(count==2)
                System.out.println(" "+i );
            count=0;
        }
    }
}
```

```

class armstrong {

int a,sum=0,rem,n;

armstrong(int a) {
    n=a;

while(n!=0)
{
rem=n%10;
sum=sum+(rem * rem * rem);
n=n/10;
}
if(sum==a)
System.out.println ( a + " is a armstrong number");
else
System.out.println ( a + " is not a armstrong number");
}
}

public class Constructor_Program
{
public static void main(String args[])
{
arithmetic_operation obj=new arithmetic_operation(30,20);
prime obj1=new prime( );
armstrong obj2=new armstrong( 153);
}
}

```

OUTPUT-

```
The Addition of 30 And 20 is :50
```

```
The Subtraction of 30 And 20 is :10
```

```
The Multiplication of 30 And 20 is :600
```

```
The Division of 30 And 20 is :1
```

```
The Modulus of 30 And 20 is :10
```

```
Prime Number between 1 to 100 :
```

```
2  
3  
5  
7  
11  
13  
17  
19  
23  
29  
31  
37  
41  
43  
47  
53  
59  
61  
67  
71  
73  
79  
83  
89  
97
```

```
153 is a armstrong number
```