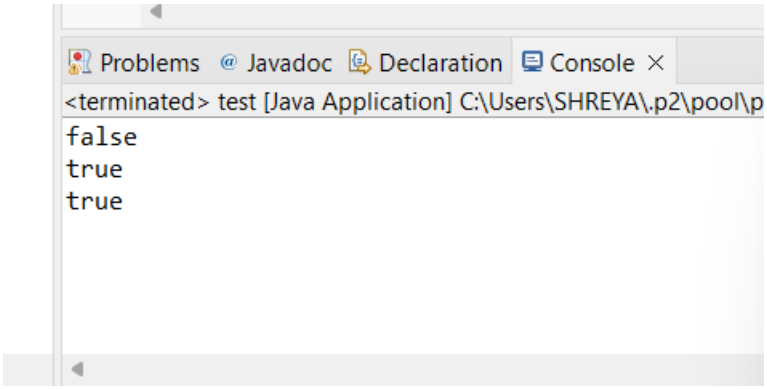
1. WAP for implementing all the operators. (choose 3)

1. a Logical operator

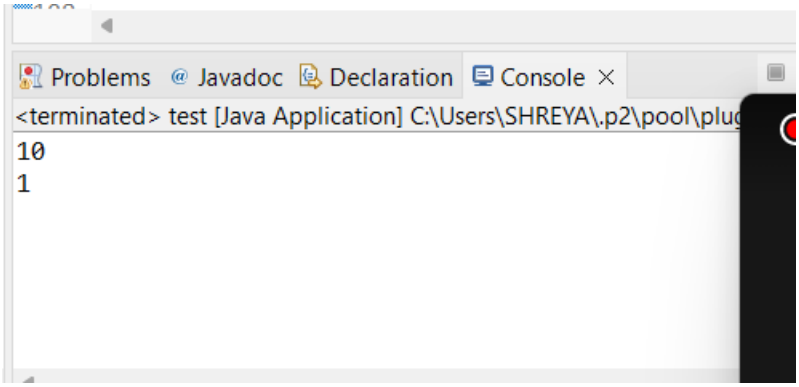
```
boolean a = true, b =false;

System.out.println(a && b);
System.out.println(a || b);
System.out.println(!(a && b));
```

o/p



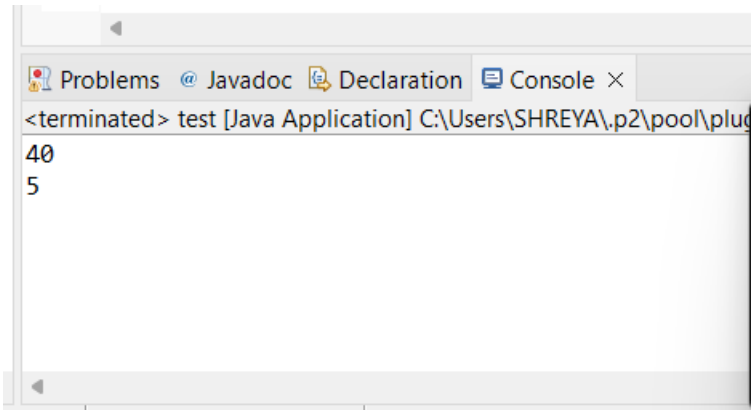
1. b Assignment operator

```
int a,b;
 a = 5;
 a +=5;
 b = 10;
 b /= a;
 System.out.println(a);
 System.out.println(b);
```



1. c shift operator

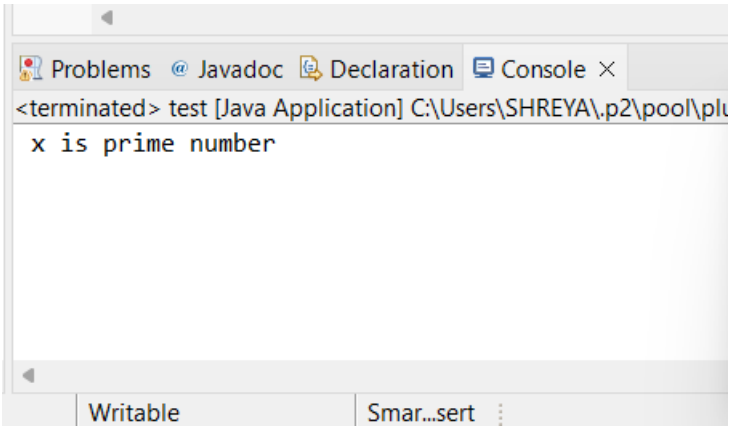
```
int x = 10, y = 20;

System.out.println(x<<2); // left shift
System.out.println(y>>2); // right shift
```



2. WAP to find out prime number

```
int x = 31;
boolean flag = true;
for(int i=2;i<=Math.sqrt(x);i++)
{
	if(x%i == 0)
	{
		flag = false;
	}
	else
	{
		flag = true;
	}
}


if(flag == false)
{
	System.out.println(" x is not prime number");
}
else
{
	System.out.println(" x is prime number");
}
```

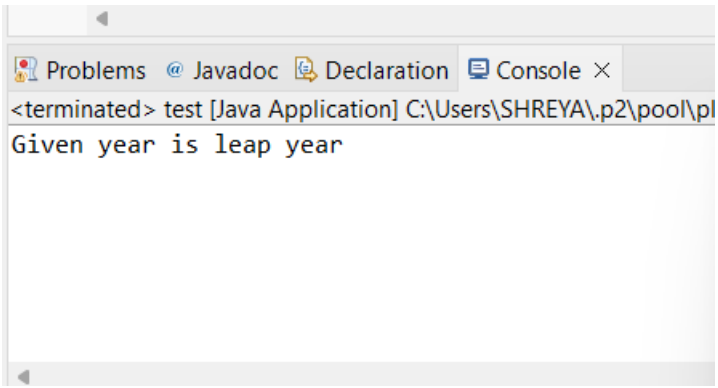
o/p



3. WAP to check year is LEAP year or not

```
int year = 2000;

if(year %4 == 0 || year %400 == 0 && year %100 != 0 )
{
            System.out.println("Given year is leap year");
}
else
{
      System.out.println("Given year is not leap year");
}
```

o/p

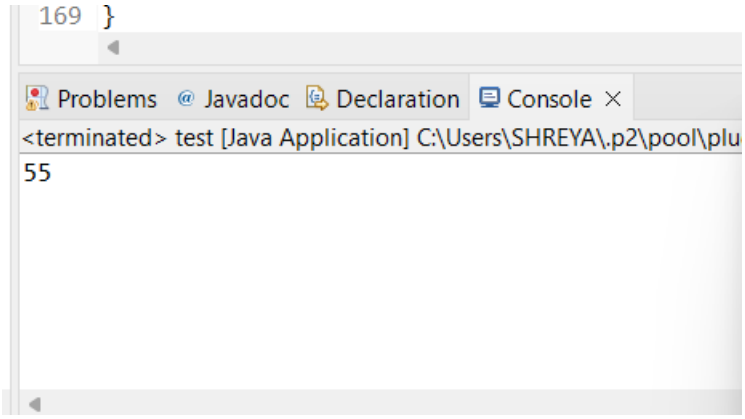


4. WAP to find sum of first 10 number

```
int total=0;

for(int i=1;i<=10;i++)
{
       total +=i;
}
```

```
            System.out.println(total);
```

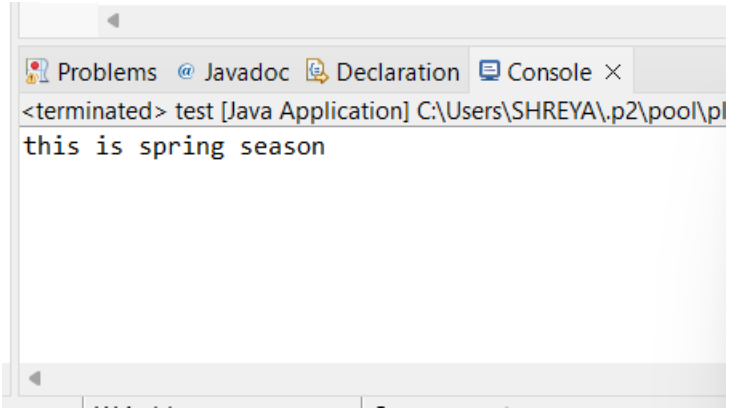
o/p



5. WAP to implement switch statement. (any use case)

```
            int weather =2;
        switch(weather)
        {
        case 0:
            System.out.println("this is winter season");
            break;
        case 1:
            System.out.println("this is rainy season");
            break;
        case 2:
            System.out.println("this is spring season");
            break;
        case 3:
            System.out.println("this is sunny season");
            break;
        default:
            System.out.println("Default value");
            break;
        }
```

o/p


Problems
Javadoc
Declaration
Console
<terminated> test [Java Application] C:\Users\SHREYA\.p2\pool\pl
this is spring season