Assignmen-5

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Write your own program using arithmetic operators.

```
package activity;
import java.util.Scanner;
public class Arithmetic {
public static void main(String[] a)
{
Scanner scan=new Scanner(System.in);
System.out.println("Enter the two Number");
int num1=scan.nextInt();
int num2=scan.nextInt();
int addValue=num1+num2;
int subValue=num1-num2;
int mulValue=num1*num2;
int divValue=num1/num2;
int moduValue=num1%num2;
System.out.println("addition " +addValue);
System.out.println("subtraction " +subValue);
```

```
System.out.println("multiplication " +mulValue);
System.out.println("division " +divValue);
System.out.println("modules " +moduValue);
scan.close();
}
}
```

Output:

```
Enter the two Number
200
100
addition 300
subtraction 100
multiplication 20000
division 2
modules 0
```

Write your own program using arthmetic assignment operators.

```
package activity;
import java.util.Scanner;
public class ArithmeticAssignment {
```

```
public static void main(String[] a) {
Scanner scan=new Scanner(System.in);
System.out.println("Enter the Number");
int num1=scan.nextInt();
int addValue=num1+=10;
int subValue=num1-=10;
int mulValue=num1*=10;
int divValue=num1/=10;
int moduValue=num1%=10;
System.out.println("addition " +addValue);
System.out.println("subtraction " +subValue);
System.out.println("multiplication " +mulValue);
System.out.println("division " +divValue);
System.out.println("modules " +moduValue);
scan.close();
}
}
```

Output:

```
Enter the Number
25
addition 35
```

```
subtraction 25

multiplication 250

division 25

modules 5
```

Write your own program using relational operators.

```
package activity;

import java.util.Scanner;

public class Relational {

public static void main(String[] args) {

Scanner scan=new Scanner(System.in);

System.out.println("Enter the two Number:");

int num1=scan.nextInt();

int num2=scan.nextInt();

boolean lessthen=num1<num2;

boolean greaterthen=num1>num2;

boolean lessthenequal=num1<=num2;

boolean greaterthenequal=num1>=num2;

boolean equal=num1==num2;

boolean notequal=num1!=num2;

System.out.println("lessthen "+lessthen);
```

```
System.out.println("greaterthen "+greaterthen);

System.out.println("lessthen Equal
"+lessthenequal);

System.out.println("greaterthen Equal"
+greaterthenequal);

System.out.println("equalto "+equal);

System.out.println("not equalto "+notequal);

}

}
```

Output:

```
Enter the two Number:

50

25

lessthen false

greaterthen true

lessthen Equal false

greaterthen Equaltrue

equalto false

not equalto true
```

Write your own program using logical operators.

```java
package activity;
import java.util.Scanner;
public class Logical {
public static void main(String[] args) {
Scanner scan=new Scanner(System.in);
System.out.println("Enter the two Number:");
int num1=scan.nextInt();
int num2=scan.nextInt();
boolean and=(num1>num2)&&(num1==num2);
boolean or=(num1>num2)||(num1<num2);
System.out.println("&& " +and);
System.out.println("|| " +or);
}
}
```

Output:

```
Enter the two Number:
50
45
&& false
|| true
```

Write a program to check age of student is greater than 18.

```
package activity;
import java.util.Scanner;
public class Agecheck {
public static void main(String[] args) {
Scanner scan=new Scanner(System.in);
System.out.println("Enter the Number:");
int num1=scan.nextInt();
boolean check=(num1>18)?true:false;
System.out.println("student Age: "+check);
}
}
```

Output:

```
Enter the Number:
15
student Age: false
```

Write a program to check number is even or odd.

```java
package activity;

import java.util.Scanner;

public class OddorEven {

public static void main(String[] args) {

Scanner scan=new Scanner(System.in);

System.out.println("Enter the Number:");

int num1=scan.nextInt();

String check=(num1%2==0)?"Number is Even":"Number
is Odd";

System.out.println(num1 +check);

}

}
```

Output:

```
Enter the Number:

12

12Number is Even
```

write a program to check whether number is greater than 100 and 200.

```java
package activity;

import java.util.Scanner;
```

```
public class Check1 {

public static void main(String[] args) {

Scanner scan=new Scanner(System.in);

System.out.println("Enter the Number:");

int num1=scan.nextInt();

String check=((num1>100)&&(num1>200))?"Number is
greaterthen 100,200":"Number lessthen 100";

System.out.println(num1 +check);

}

}
```

Output:

```
Enter the Number:

250

250Number is greaterthen 100,200
```

write a program to check whether both numbers are same or not.

```
package activity;

import java.util.Scanner;

public class BothSame {

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

```
Scanner scan=new Scanner(System.in);

System.out.println("Enter the two Number:");

int num1=scan.nextInt();

int num2=scan.nextInt();

String check=(num1==num2)?"Both are
same":"Different";

System.out.println(num1+" "+num2 +" " +check);

}

}
```

Output:

```
Enter the two Number:

54

54

54 54 Both are same
```