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1.Write your own program using arthmetic operators.
Code:
package Assignment5;
import java.util.Scanner;
public class Arithmetic {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
       int x,y;
       Scanner sc=new Scanner(System.in);
       System.out.println("Enter the numbers to perform arithmetic operation:");
       x=sc.nextInt();
       y=sc.nextInt();
       int add=x+y;
       System.out.println("addition of x and y is:"+add);
       int sub=x-y;
       System.out.println("substraction of x and y is:"+sub);
       int mul=x*y;
       System.out.println("multiplication of x and y is:"+mul);
       int div=x/y;
       System.out.println("division of x and y is:"+div);
       int mod=x%y;
       System.out.println("modlusof x and y is:"+mod);
        }
}
2. Write your own program using arthmetic assignment operators.
Code:
package Assignment5;
import java.util.Scanner;
public class Assignment2 {
        public static void main(String[] args) {
                //Object system;
        // TODO Auto-generated method stub
                //Arithmetic assignment operators are =,+=,-=,/=,%=,*=
      Scanner sc=new Scanner(System.in);
      int a,b;
      System.out.println("Enter two numbers a and b:");
      a=sc.nextInt();
      b=sc.nextInt();
      System.out.println(a=b);//assigns b value to a
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System.out.println(a+=b);//a=a+b
      System.out.println(a-=b);//a=a-b
      System.out.println(a*=b);//a=a*b
      System.out.println(a/=b);//a=a/b
      System.out.println(a%=b);//a=a&b
        }
}
3.Write your own program using relational operators.
code:
package Assignment5;
import java.util.Scanner;
public class relational {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
         Scanner sc=new Scanner(System.in);
         System.out.println("Enter the values of a and b:");
         int a=sc.nextInt();
         int b=sc.nextInt();
         System.out.println("a is equal to b is:"+(a==b));
         System.out.println("a is greater than b is:"+(a>b));
         System.out.println("a is less than b is:"+(a<b));</pre>
         System.out.println("a is greater than or equal to b is:"+(a>=b));
         System.out.println("a is less than or equal to b is:"+(a<=b));
         System.out.println("a is not equal to b is:"+(a!=b));
        }
}
4. Write your own program using logical operators.
code:
package Assignment5;
import java.util.Scanner;
public class Logical {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the four numbers:");
        int a=sc.nextInt();
        int b=sc.nextInt();
        int c=sc.nextInt();
        int d=sc.nextInt();
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//logical and operator(&&)It prints true if both the expressions are true
or else false
        System.out.println("logical AND operator:");
        System.out.println((a>b)&&(c>d));
        System.out.println((a>b)&&(c<d));</pre>
        System.out.println((a<b)&&(c>d));
        System.out.println((a>b)||(c>d));
        //logical OR operator(||)It prints true if either of the expression is true
        System.out.println("logical OR operator:");
        System.out.println((a>b)||(c>d));
        System.out.println((a>b)||(c<d));</pre>
        System.out.println((a<b)||(c>d));
        System.out.println((a<b)||(c<d));</pre>
        //logical NOT operator(!) prints true if the expression is false and vice
versa
        System.out.println("logical NOT operator:");
        System.out.println(!(a==b));
        System.out.println(!(a<b));</pre>
        System.out.println(!(a<=b));</pre>
        System.out.println(!(a>=b));
        }
}
5.Write your own program to show the use of assignment operator.
code:
package Assignment5;
import java.util.Scanner;
public class ExampleAssignment {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
                int a;
                Scanner sc=new Scanner(System.in);
                System.out.println("enter the number:");
                a=sc.nextInt();
     System.out.println("Assignment operator += is:"+(a+=1));
     System.out.println("Assignment operator += is:"+(a-=2));
     System.out.println("Assignment operator += is:"+(a*=3));
     System.out.println("Assignment operator += is:"+(a/=1));
        }
}
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6. Write a program to check age of student is greater than 18.

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code:
package Assignment5;
import java.util.Scanner;
public class Age {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
      Scanner sc=new Scanner(System.in);
      System.out.println("Enter the numbers:");
      int age=sc.nextInt();
      //entered age is eligible it will say true else it will say false
      System.out.println((age>=18?"student age is greater than 18":"student age is
not greater than 18"));
        }
}
7. Write a program to check number is even or odd.
code:
package Assignment5;
import java.util.Scanner;
public class EvenOdd {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
       Scanner input=new Scanner(System.in);
       System.out.println("Enter the number");
       int num=input.nextInt();
       String evenOdd=(num%2==0)?"even":"odd";
       System.out.println(num + " is "+evenOdd);
        }
}
8.write a program to check whether number is greater than 100 and 200.
code:
package Assignment5;
import java.util.Scanner;
public class Greater {
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public static void main(String[] args) {
                // TODO Auto-generated method stub
         Scanner sc=new Scanner(System.in);
         System.out.println("Enter the number which is greater than 100 and 200:");
         int num=sc.nextInt();
         System.out.println("if entered number is greater than 100 and 200 it will
say true else it will say false");
         System.out.println(num>100&&num>200);
        }
}
9.write a program to check whether both numbers are same or not.
code:
package Assignment5;
import java.util.Scanner;
public class NumberSame {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
      Scanner sc=new Scanner(System.in);
      int a,b;
      System.out.println("Enter the values of a and b:");
      a=sc.nextInt();
      b=sc.nextInt();
      String Equal=(a==b)?"equal":"notequal";
      System.out.println("The number a and b are:"+Equal);
        }
}
```

Note: dont use the if and switch case. write a simple programs without using if and switch in all the above programs.