

2.1 Write a program to print the result of the following expressions provided the integer variable

a is 20 and b is 10.

int b = a-- - --a;

int c = a--;

int d = a>>2;

int e = a&b;

2.2 Code with Comments

```
package assignments;

public class Expressions {

    public static void main(String[] args) {

        int a=20;
        int b=10;

        //Performing the following operations and getting the output
        b = a-- - --a; //Post decrement -Pre decrement
        int c = a--; //Post decrement
        int d = a>>2; // Right shift operator
        int e = a&b; //AND operator
        System.out.println("b= "+b);
        System.out.println("c= "+c);
        System.out.println("d= "+d);
        System.out.println("e= "+e);

    }

}
```

2.3 Explanation of the code

Intializing the a and b values as 20,10. Performed the operations and printed the values of the operations.

2.4 Output

b=a-- ---a (20-18=2)

c=a—(18)

d=a>>2 (4)

e=a&b(0)

binary of 20=00010100

binary of 10 =00001010

a&b=0

```
3 public class Expressions {
4
5     public static void main(String[] args) {
6
7         int a=20;
8         int b=10;
9
10        //Performing the following operations and getting the output
11        b = a-- - --a; //Post decrement -Pre decrement
12        int c = a--; //Post decrement
13        int d = a>>2; // Right shift operator
14        int e = a&b; //AND operator
15        System.out.println("b= "+b);
16        System.out.println("c= "+c);
17        System.out.println("d= "+d);
18        System.out.println("e= "+e);
19
20
21    }
22
23 }
24
```

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<terminated> Expressions [Java Application] C:\Program Files\Java\jre-10.0.1\bin\javaw.exe (23-Nov-

b= 2

c= 18

d= 4

e= 0