**ASSIGNMENT-1**

Q1- public class ComplexExample1 {

public static void main(String[] args) {

int a = 5;

int b = 3;

int c = a++ \* --b + 2 \* a-- / ++b;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c = a++ \* --b + 2 \* a-- / ++b;

=5\*2+2\*6/3=10+12/3=10+4=14

**a=5, b=3,c=14.**

Q2-public class ComplexExample2 {

public static void main(String[] args) {

int x = 8;

int y = 2;

int z = x++ \* --y + 2 \* x-- / ++y - x++;

System.out.println(x + " " + y + " " + z);g

}

}

O/p: z = x++ \* --y + 2 \* x-- / ++y - x++

=8\*1+2\*9/2-8=8+18/2-8=9

**x=9,y=2,z=9**

Q3-

public class ComplexExample3 {

public static void main(String[] args) {

int a = 5;

int b = 10;

int c = ++a \* b-- + 2 \* a++ / --b - a--;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c = ++a \* b-- + 2 \* a++ / --b - a--

=6\*10+2\*6/8-7=60+12/8-7=54

**a=6, b=8,c=54.**

Q-4

public class ComplexExample4 {

public static void main(String[] args) {

int x = 6;

int y = 3;

int z = x++ \* --y + 2 \* x-- / ++y - x++ + y--;

System.out.println(x + " " + y + " " + z);

}

}

O/p: z = x++ \* --y + 2 \* x-- / ++y - x++ + y--

=6\*2+2\*7/3-6+3=12+14/3-3=50/3-3=13

**x=7,y=2,z=13**

Q-5

public class ComplexExample4 {

public static void main(String[] args) {

int x = 6;

int y = 3;

int z = x++ \* --y + 2 \* x-- / ++y - x++ + y--;

System.out.println(x + " " + y + " " + z);

}

}

O/p: z = x++ \* --y + 2 \* x-- / ++y - x++ + y--

=6\*2+2\*7/3-6+3=12+14/3-3=50/3-3=13

**x=7,y=2,z=13**

Q-6

public class ComplexExample5 {

public static void main(String[] args) {

int a = 7;

int b = 2;

int c = a-- \* --b + 2 \* a++ / ++b - a-- + b++;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c = a-- \* --b + 2 \* a++ / ++b - a-- + b++

=7\*1+2\*6/2-7+2=7+6-7+2=8

**a=6,b=3,c=8**

Q7

public class ComplexExample6 {

public static void main(String[] args) {

int x = 5;

int y = 2;

int z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3;

System.out.println(x + " " + y + " " + z);

}

}

O/p: z=x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3

=5\*1+2\*6/2-5+2\*3=5+6-5+6=12

**x=6,y=1,z=12**

Q-8

public class ComplexExample7 {

public static void main(String[] args) {

int a = 4;

int b = 3;

int c = a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2;

System.out.println(a + " " + b + " " + c);

}

}

**O/p**: c=a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2

=4\*2+2\*5/3-4+3\*4/2=8+10/3-4+6=13

**a=3,b=4,c=13**

Q-9

public class ComplexExample8 {

public static void main(String[] args) {

int x = 5;

int y = 3;

int z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2;

System.out.println(x + " " + y + " " + z);

}

}

O/p: z=x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2

=5\*2+2\*6/3-5+3\*3/2=10+4-5+4.5=13

**x=6,y=2,z=13**

Q-10

public class ComplexExample9 {

public static void main(String[] args) {

int a = 6;

int b = 3;

int c = a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2 - --a;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c=a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2 - --a

= 6\*2+2\*7/3-6+3\*4/2-4=12+14/3-4=12

**a=4,b=4,c=12**

Q-11

public class ComplexExample10 {

public static void main(String[] args) {

int x = 7;

int y = 2;

int z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2 - --x;

System.out.println(x + " " + y + " " + z);

}

}

O/p: z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2 - --x

= 7\*1+2\*8/2-7+2\*3/2-7=4

**x=7,y=1,c=4**

Q-12

public class AdvancedExample1 {

public static void main(String[] args) {

int a = 8;

int b = 3;

int c = a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2 + --a;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c = a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2 + --a

=8\*2+2\*9/3-8+3\*4/2+6=16+6-8+6+6=26

**a=6,b=4,c=26**

Q-13

public class AdvancedExample2 {

public static void main(String[] args) {

int x = 5;

int y = 3;

int z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2 + --x;

System.out.println(x + " " + y + " " + z);

}

}

O/p: z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2 + --x

=5\*2+2\*6/3-5+3\*3/2+5=10+4-5+4.5+5=18.5=18

**x=5,y=2,z=18**

Q-14

public class AdvancedExample3 {

public static void main(String[] args) {

int a = 6;

int b = 3;

int c = a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2 + --a;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c = a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2 + --a

=6\*2+2\*7/3-6+3\*4/2+4=12+4.67-6+6+4=20.67=20

**a=4,b=4,c=20**

Q-15

public class AdvancedExample3 {

public static void main(String[] args) {

int a = 6;

int b = 3;

int c = a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2 + --a;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c = a++ \* --b + 2 \* a-- / ++b - a-- + b++ \* 4 / 2 + --a

=6\*2+2\*7/3-6+3\*4/2+4=12+4.67-6+6+4=20.67

**a=4,b=4,c=20**

Q-16

public class AdvancedExample4 {

public static void main(String[] args) {

int x = 7;

int y = 2;

int z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2 + --x;

System.out.println(x + " " + y + " " + z);

}

}

O/p: z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2 + --x

=7\*1+2\*8/2-7+2\*3/2+7=7+8-7+10=18

**x=7,y=1,z=18**

Q-17

public class AdvancedExample5 {

public static void main(String[] args) {

int a = 8;

int b = 2;

int c = a-- \* ++b + 2 \* a++ / --b - a-- + b++ \* 4 / 2 + ++a;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c = a-- \* ++b + 2 \* a++ / --b - a-- + b++ \* 4 / 2 + ++a

=8\*3+2\*7/2-8+2\*4/2+8=24+7-8+4+8=35

**a=8,b=3,c=35**

Q-18

public class AdvancedExample7 {

public static void main(String[] args) {

int a = 7;

int b = 2;

int c = a-- \* ++b + 2 \* a++ / --b - a-- + b++ \* 4 / 2 + ++a;

System.out.println(a + " " + b + " " + c);

}

}

O/p: c = a-- \* ++b + 2 \* a++ / --b - a-- + b++ \* 4 / 2 + ++a

7\*3+2\*6/2-7+2\*4/2+7=21+6-7+4+7=31

**a=7,b=3,c=31**

Q-19

public class AdvancedExample10 {

public static void main(String[] args) {

int x = 10;

int y = 3;

int z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2 + --x;

System.out.println(x + " " + y + " " + z);

}

}

O/p: z = x++ \* --y + 2 \* x-- / ++y - x++ + y-- \* 3 / 2 + --x

=10\*2+2\*11/3-10+3\*3/2+10=20+7.33-10+4.5+10=31.83=31

**x=10,y=2,z=31**

Q-20

**Give the output of this code**

int a = 9;

a++;

System.out.println (a);

a -= a – - – a;

System .out.println (a);

O/p: a =10

a=8