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| --- | --- |
| **1** | **public class Q2** |
| **2** | **{** |
| **3** | **public static void main(String args[])** |
| **4** | **{** |
| **5** | **int x = 0, i =0, sum = 0;** |
| **6** | **i = 1;** |
| **7** | **x = 2;** |
| **8** | **sum = 0;** |
| **9** | **while (i < 20){** |
| **10** | **x = x + i;** |
| **11** | **sum = sum + x + 1;** |
| **12** | **System.out.println(sum);** |
| **13** | **if (x > 5)** |
| **14** | **i += 2;** |
| **15** | **else** |
| **16** | **i += 3;** |
| **17** | **}** |
| **18** | **sum = sum + i;** |
| **19** | **System.out.println(sum);** |
| **20** | **}** |
| **21** | **}** |

Line 5: int x = 0, i =0, sum = 0;

Line 5: x = 0, i =0, sum = 0;

Line 6: i = 1;

Line 7: x = 2;

Line 8: sum = 0;

Line 9: while (i < 20){

Line 9: while (1 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 2 + 1;

Line 10: x = 3;

Line 11: sum = sum + x + 1;

Line 11: sum = 0 + 3 + 1;

Line 11: sum = 3 + 1;

Line 11: sum = 4;

Line 12: System.out.println(sum);

Line 12: System.out.println(4);

OUTPUT is =4

Line 13: if (x > 5)

Line 13: if (3 > 5)

Line 13: if (false)

Line 13: condition false, going to else part

Line 16: i =i+3;

Line 16: i =1+3;

Line 16: i =4;

Line 9: while (i < 20){

Line 9: while (4 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 3 + 4;

Line 10: x = 7;

Line 11: sum = sum + x + 1;

Line 11: sum = 4 + 7 + 1;

Line 11: sum = 11 + 1;

Line 11: sum = 12;

Line 12: System.out.println(sum);

Line 12: System.out.println(12);

OUTPUT is =12

Line 13: if (x > 5)

Line 13: if (7 > 5)

Line 13: if (true)

Line 13: condition true, going inside if

Line 14: i += 2;

Line 14: i =i+2;

Line 14: i =4+2;

Line 14: i =6;

Line 9: while (i < 20){

Line 9: while (6 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 7 + 6;

Line 10: x = 13;

Line 11: sum = sum + x + 1;

Line 11: sum = 12 + 13 + 1;

Line 11: sum = 25 + 1;

Line 11: sum = 26;

Line 12: System.out.println(sum);

Line 12: System.out.println(26);

OUTPUT is =26

Line 13: if (x > 5)

Line 13: if (13 > 5)

Line 13: if (true)

Line 13: condition true, going inside if

Line 14: i += 2;

Line 14: i =i+2;

Line 14: i =6+2;

Line 14: i =8;

Line 9: while (i < 20){

Line 9: while (8 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 13 + 8;

Line 10: x = 21;

Line 11: sum = sum + x + 1;

Line 11: sum = 26 + 21 + 1;

Line 11: sum = 47 + 1;

Line 11: sum = 48;

Line 12: System.out.println(sum);

Line 12: System.out.println(48);

OUTPUT is =48

Line 13: if (x > 5)

Line 13: if (21 > 5)

Line 13: if (true)

Line 13: condition true, going inside if

Line 14: i += 2;

Line 14: i =i+2;

Line 14: i =8+2;

Line 14: i =10;

Line 9: while (i < 20){

Line 9: while (10 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 21 + 10;

Line 10: x = 31;

Line 11: sum = sum + x + 1;

Line 11: sum = 48 + 31 + 1;

Line 11: sum = 79 + 1;

Line 11: sum = 80;

Line 12: System.out.println(sum);

Line 12: System.out.println(80);

OUTPUT is =80

Line 13: if (x > 5)

Line 13: if (31 > 5)

Line 13: if (true)

Line 13: condition true, going inside if

Line 14: i += 2;

Line 14: i =i+2;

Line 14: i =10+2;

Line 14: i =12;

Line 9: while (i < 20){

Line 9: while (12 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 31 + 12;

Line 10: x = 43;

Line 11: sum = sum + x + 1;

Line 11: sum = 80 + 43 + 1;

Line 11: sum = 123 + 1;

Line 11: sum = 124;

Line 12: System.out.println(sum);

Line 12: System.out.println(124);

OUTPUT is =124

Line 13: if (x > 5)

Line 13: if (43 > 5)

Line 13: if (true)

Line 13: condition true, going inside if

Line 14: i += 2;

Line 14: i =i+2;

Line 14: i =12+2;

Line 14: i =14;

Line 9: while (i < 20){

Line 9: while (14 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 43 + 14;

Line 10: x = 57;

Line 11: sum = sum + x + 1;

Line 11: sum = 124 + 57 + 1;

Line 11: sum = 181 + 1;

Line 11: sum = 182;

Line 12: System.out.println(sum);

Line 12: System.out.println(182);

OUTPUT is =182

Line 13: if (x > 5)

Line 13: if (57 > 5)

Line 13: if (true)

Line 13: condition true, going inside if

Line 14: i += 2;

Line 14: i =i+2;

Line 14: i =14+2;

Line 14: i =16;

Line 9: while (i < 20){

Line 9: while (16 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 57 + 16;

Line 10: x = 73;

Line 11: sum = sum + x + 1;

Line 11: sum = 182 + 73 + 1;

Line 11: sum = 255 + 1;

Line 11: sum = 256;

Line 12: System.out.println(sum);

Line 12: System.out.println(256);

OUTPUT is =256

Line 13: if (x > 5)

Line 13: if (73 > 5)

Line 13: if (true)

Line 13: condition true, going inside if

Line 14: i += 2;

Line 14: i =i+2;

Line 14: i =16+2;

Line 14: i =18;

Line 9: while (i < 20){

Line 9: while (18 < 20){

Line 9: while (true){

Line 9: condition true, going inside while loop ...

Line 10: x = x + i;

Line 10: x = 73 + 18;

Line 10: x = 91;

Line 11: sum = sum + x + 1;

Line 11: sum = 256 + 91 + 1;

Line 11: sum = 347 + 1;

Line 11: sum = 348;

Line 12: System.out.println(sum);

Line 12: System.out.println(348);

OUTPUT is =348

Line 13: if (x > 5)

Line 13: if (91 > 5)

Line 13: if (true)

Line 13: condition true, going inside if

Line 14: i += 2;

Line 14: i =i+2;

Line 14: i =18+2;

Line 14: i =20;

Line 9: while (i < 20){

Line 9: while (20 < 20){

Line 9: while (false){

Line 9: condition false, going outside while loop ...

Line 18: sum = sum + i;

Line 18: sum = 348 + 20;

Line 18: sum = 368;

Line 19: System.out.println(sum);

Line 19: System.out.println(368);

OUTPUT is =368