|  |
| --- |
| Control Statements  **public** **class** Eg1 {  **public** **static** **void** main(String[] args) {  **if** (**true**) {  System.***out***.println("Condition Checked"); // Condition Checked  }    System.***out***.println("Main Method");  }  } |

|  |
| --- |
| **public** **class** Eg2 {    **public** **static** **void** main(String[] args) {  **if** (**false**) {  System.***out***.println("Condition Checked"); // Dead code  }  System.***out***.println("Main Method"); // Main Method  }  } |

|  |
| --- |
| /if else  **public** **class** Eg3 {  **public** **static** **void** main(String[] args) {  **int** a = 10, b = 20;  **if** (a < b) {  System.***out***.println("Condition Checked"); //Condition Checked  }**else** {  System.***out***.println("Condition Failed");  }  }  } |

|  |
| --- |
| //else if  **public** **class** Eg4 {  **public** **static** **void** main(String[] args) {    **float** userSalary = 30000f;  **if** (userSalary==10000){  System.***out***.println(userSalary);  }  **else** **if** (userSalary == 20000){  System.***out***.println(userSalary);  }  **else** **if** (userSalary == 30000){  System.***out***.println(userSalary);  }  **else** **if** (userSalary == 40000){  System.***out***.println(userSalary);  } **else** {  System.***out***.println("Salary is out of range");  }  }  } |

|  |
| --- |
| //switch case  **public** **class** Eg5 {  **public** **static** **void** main(String[] args) {    **int** a = 20;  **switch** (a) {  **case** 10: {  System.***out***.println("Case 10");  }  **case** 20: {  System.***out***.println("Case 20");  }  **case** 30: {  System.***out***.println("Case 30");  }  **default**:  System.***out***.println("Default Case");  }  }  }  Case 20  Case 30  Default Case |

|  |
| --- |
| // switch case  **public** **class** Eg6 {  **public** **static** **void** main(String[] args) {  **int** a = 40;  **switch** (a) {  **case** 10: {  System.***out***.println("Case 10");  }  **case** 20+20: {  System.***out***.println("Case 20+20");  }  **case** 30: {  System.***out***.println("Case 30");  }  **default**:  System.***out***.println("Default Case");  }  }  }  Case 20+20  Case 30  Default Case |

|  |
| --- |
| //switch case  **public** **class** Eg7 {  **public** **static** **void** main(String[] args) {  String s1 = "domiar";  **switch** (s1) {  **case** "domiar":  System.***out***.println("400 CC");  **break**;  **case** "beneli":  System.***out***.println("6000 CC");  **break**;  **default**:  System.***out***.println("Default Case");  **break**;  }  }  }  400 CC |

|  |
| --- |
| **public** **class** Eg8 {  **int** x; //we get default value  **public** **static** **void** main(String[] args) {  Eg8 e = **new** Eg8();  e.m1();  }  **public** **void** m1() {  **int** y; //local variable need to initialized //0  System.***out***.println(x); //0  // System.out.println(y);// The local variable j may not have been initialized  }  } |

|  |
| --- |
| //Mystery  **public** **class** Eg9 {  **public** **static** **void** main(String[] args) {  **int** x = 10;  **int** y = 10;  **int** z;  **if** (x == y) {  z = 20;  System.***out***.println(z);// 20  z = 30;  System.***out***.println(z);// 30  }  // z = 20;  // System.out.println(j); //The local variable j may not have been initialized  }  } |

|  |
| --- |
| **public** **class** Eg10 {  **public** **static** **void** main(String[] args) {  **int** x = 10;  **int** y = 10;  **int** z;  **if** (**true**) {  z = 20;  System.***out***.println(z);// 20  z = 30;  System.***out***.println(z);// 30  }  z = 40;  System.***out***.println(z); //The local variable z may not have been initialized  }  } |

|  |
| --- |
| **public** **class** Eg11 {  **public** **static** **void** main(String[] args) {  **int** i = 10;  **int** j;  **if**(i==10) {  j = 20;  }**else** {  j = 30;  }  j=40;  System.***out***.println(j); //40  }  } |