**CSC110AB**

**Ch 4 Activity 2 : Decisions Worksheet (10 pts) –**

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Please indicate the output that will be produced when the following code snippets are executed. Trace the output by yourself and do not use eclipse. You can type up your answers in this document after downloading it.

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| #1.  int limit = 30, num1 = 15,  num2 = 40;  if (limit <= 50)  {  if (num1 == num2)  System.out.println("lemon");  System.out.println("lime");  }  System.out.println("grape");  Output:  lime  grape | #2.  int count = 0;  int limit = 10;  if ( (count==0) && (limit < 20) )  {  System.out.println(“Items still available”);  }  else  {  System.out.println(“Not available”);  }  Output:  Items still available |
| #3.    int score = 65;  if (score <= 90)  {  System.out.println( “A Student”);  }  else if (score <= 80)  {  System.out.println(“ B Student”);  }  else if (score < = 70) {  System.out.println(“C Student”);  } else {  System.out.println(“Please see advisor.”);  }  Output:  A Student | #4.  int score = 79;  if (score >= 90) {  System.out.println(“A Student”);  } else if (score >= 80) {  System.out.println(“ B Student”);  } else if (score >= 70) {  System.out.println(“C Student”);  } else {  System.out.println(“Please see advisor.)”;  }  Output:  C Student |
| #5.  int firstChoice = 2;  switch (firstChoice)  {  case 1: System.out.println(“Grilled salmon\n”);  break;  case 2: System.out.println(“Roast Beef \n”);  break;  case 3: System.out.println(“Quiche\n”);  break;  default: System.out.println( “Enjoy!”);  }  Output:  Roast Beef | #6.  int firstChoice = 2;  switch (firstChoice)  {  case 1: System.out.println(“ Grilled salmon\n”);  case 2: System.out.println( “Roast Beef \n”);  case 3: System.out.println( “Quiche\n”);  break;  default: System.out.println( “Enjoy!”);  }  Output:  Roast Beef  Quiche |

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| #7  int speed = 50;  int visibility = 15;  int ticketPrice = 100;  if ( (speed > 25) && (visibility < 20) )  {  System.out.println( “Low visibility. Speeding Ticket of $” + ticketPrice) ;  }  Output:  Low visibility. Speeding Ticket of $100 |
| #8  int total = 56, MAX = 100, sum = 90;  if (total == M if (total == MAX) {  if (total < sum)  System.out.println( total + “ is equal to “ + MAX + “ and it is less than “ + sum); } else   System.out.println(total + “ is not equal to “ + MAX);  Output: 56 is not equal to 100  56 |
| #9  int speed = 20;  int visibility = 50;  int ticketPrice = 100;  int age = 20;  if ( (speed > 25) || (visibility < 20) || (age < 21) )  {  System.out.println( “Low visibility. Speeding Ticket of $” + ticketPrice );  }  Output:  Low visibility. Speeding Ticket of $100 |