1. Create an activity program
   1. utilizes the random number generator from -20 to 110
   2. outputs the random number with degrees label with suggested activity
   3. create 5 if/else if statements and an else activity
2. Given the int variables x, y, and z, where x contains 3, y contains y, and z contains 6, what is the output from each of the following code fragments?
   1. if (x <= 3)  
       cout << x + y << endl;  
      cout << x + y << endl;
   2. if (x != -1)  
       cout << “The value of x is “ << x << endl;  
      else  
       cout << “The value of y is “ << y << endl;
   3. if (x != 3)  
      {  
       cout << x << endl;  
       cout << y << endl;  
       cout << z << endl;  
      }  
      else  
       cout << “y” << endl << “z” << endl;
3. Date for Easter Sunday
   1. all variables are of type int
   2. year (prompt / read)  
      a = year % 19 b = year % 4 c = year % 7  
      d = (19 \* a + 24) % 30  
      e = (2 \* b + 4 \* c + 6 \* d + 5) % 7  
      day = (22 + d + e)
   3. Cases and Output:   
      if day > 31, then Easter Sunday will be in April (day – 31)  
      otherwise Easter Sunday will be in March  
      Output format: Easter Sunday: month day, year  
      Example: Easter Sunday: April 14, 2047