**Basic Computer Programming Test**

**Within an hour, create a basic java console program for the following problems.**

1. Write a simple program that would print all even numbers from 1-200 in a 10x10 matrix.

Ex. output

**2 4 6 8 10 12 14 16 18 20**

**22 24 26 28 30 32 34 36 38 40**

**42 44 46 48 50 52 54 56 58 60**

**62 64 66 68 70 72 74 76 78 80**

**82 84 86 88 90 92 94 96 98 100**

**102 104 106 108 110 112 114 116 118 120**

**122 124 126 128 130 132 134 136 138 140**

**142 144 146 148 150 152 154 156 158 160**

**162 164 166 168 170 172 174 176 178 180**

**182 184 186 188 190 192 194 196 198 200**

1. Write a program that would that require the users to input number within 1 – 9 and display multiplication table in a symmetric matrix array inputted value.

Ex.1

**Input a number from 1-9:** 5

**Multiplication table:**

**1 2 3 4 5**

**2 4 6 8 10**

**3 6 9 12 15**

**4 8 12 16 20**

**5 10 15 20 25**

Ex.2

**Input a number from 1-9:** 3

**Multiplication table:**

**1 2 3**

**2 4 6**

**3 6 9**

1. Write program that would require the user to input 5 random numbers from 1-9 and then display it in ascending order.

**Ex.**

**Input the 1st number:** 5

**Input the 2nd number:** 8

**Input the 3rd number:** 3

**Input the 4th number:** 6

**Input the 5th number:** 2

**Ascending order:**

2 3 5 6 8

1. Write a program that would convert a decimal number to hexadecimal value.

**Ex.**

**Input a decimal value from 1-1000:** 956

**Hexadecimal value:** 3BC

**Basic Programming Test Result**

**Respondents**

**Senior High school: 7**

**College: 9**

**Total: 16**

**Tally of students who were able to finish and present correct outputs per question.**

1. Write a simple program that would print all even numbers from 1-200 in a 10x10 matrix.
   1. Senior High school students: 7
   2. College students: 9
   3. Total: 16
2. Write a program that would that require the users to input number within 1 – 9 and display multiplication table in a symmetric matrix array inputted value.
   1. Senior High school students: 5
   2. College students: 9
   3. Total: 14
3. Write program that would require the user to input 5 random numbers from 1-9 and then display it in ascending order.
   1. Senior High school students: 1
   2. College students: 3
   3. Total: 4
4. Write program that would require the user to input 5 random numbers from 1-9 and then display it in ascending order.
   1. Senior High school students: 0
   2. College students: 1
   3. Total: 1

Only 1 out 16 students was able to finish and solve all problems from the test within an hour.