**Ahsanullah University of Science and Technology**

**Course Title: Object Oriented Programming Lab**

**Course Number: CSE1206**

**Online: 1 Date: 15 January, 2019 Group: B1 Time: 50 minutes**

**Set- B**

1. Write a program check if a number is an Unhappy Number or not. A number is called A number is called Unhappy if sum of its digits powered with their respective positions is equal to the number itself. For example: 135 is an Unhappy Number.

1^1 + 3^2 + 5^3 = 135

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| Sample Input | Sample Output |
| Enter a number: 80 | Not an Unhappy Number |

\*For power you can use Math.pow(n,p) if you want to. Here n is the number and p is the power.

1. Find the the kth common factor of two numbers. Given three numbers a, b and k, find the k’th common factor of a and b. If there is no k-th common factor then print -1.

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| Sample Input | Sample Output |
| m = 24, n = 4, k= 2 | 2 |