



National University

of Computer & Emerging Sciences Peshawar Campus

Name: _____ Section _____

Roll No: _____

Program: CS

Semester: Spring – 2021

Time Allowed: 2 hrs

Course: Programming Fundamentals (CL218)

Examination: Lab Exam

Total Marks: 50

Date: 30th June, 2021

Lab Instructor: Muhammad Hamza

NOTE:

All submissions will be accepted on Google Classroom only. Each Question will have dedicated time and marks. No late submissions will be entertained. **Zero** tolerance in case of plagiarism. Total Questions 5. Only submit **.py** files. Time mentioned for each question includes submission time.

Q5. Disarium Number (Marks: 15)

Time: 30 min

A number is said to be Disarium if the sum of its digits raised to their respective positions is the number itself.

Create a function that determines whether a number is a Disarium or not.

Examples

```
is_disarium(75) → False
```

```
#  $7^1 + 5^2 = 7 + 25 = 32$ 
```

```
is_disarium(135) → True
```

```
#  $1^1 + 3^2 + 5^3 = 1 + 9 + 125 = 135$ 
```

```
is_disarium(544) → False
```

```
is_disarium(518) → True
```

```
is_disarium(466) → False
```