



# 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: 30<sup>th</sup> 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.

### Q1. Cricket Balls to Overs! (Marks: 10)

Time: 15 min

In cricket, an over consists of six deliveries a bowler bowls from one end. Create a function that takes the number of `balls` bowled by a bowler and calculates the number of overs and balls bowled by him/her. Return the value as a float, in the format `overs.balls`.

#### Examples

```
total_overs(2400) → 400
```

```
total_overs(164) → 27.2
```

```
# 27 overs and 2 balls were bowled by the bowler.
```

```
total_overs(945) → 157.3
```

```
# 157 overs and 3 balls were bowled by the bowler.
```

```
total_overs(5) → 0.5
```

#### Note:

The number following the decimal point represents the balls remaining after the last over. Therefore, it will only ever have a value of 1-5.