Assignment #1:

1. What are the advantages of OOP over POP. Explain the features of OOP. WAP in CPP that illustrates OOP concept.
2. Define default arguments. What are the rules for writing default arguments. WAP in CPP to illustrate the concept of default arguments.
3. Explain how the use of default argument supports the function overloading with suitable example.
4. Define namespace with its significance.
5. WAP in CPP to find the sum of two distances(in feet and inch) entered by the user using the concept of friend function.
6. WAP in CPP to find the transpose of a given Matrix using the concept of OOP.
7. WAP in CPP to find the sum of two distance object with feet and inch as the members.
8. WAP in CPP to find the product of two matrices using OOP concept.
9. WAP in CPP to sort the details of n students entered by the user in the order of their marks using OOP concept. Also display the details of students obtaining highest and third highest marks. Assume n>=3.
10. Explain the relation between constant object and constant function with example. When do we use static data nrember and static function in a crass? Exemplify. *Submission Deadline:* **9th October, 2020**

29

Send your completed assignment to email id
bikaladhikari@pcampus.edu.np
in the form of a pdf file.

Rules:
- The assignment should be strictly handwritten with name and roll no. marked in each page.
- The file name must be in the following format:
  TUT1PUL076BEI001.pdf
  It represent the tutorial 1 submitted by student with roll no. 1. Also be very precise. All texts are case sensitive.
- The student can submit the file until 11:59 PM of the deadline mentioned.
- The email should be in formal structure. If any one out of (subject line, salutation, body text and sender details) is missing. Email will be ignored and will not receive acknowledgement. When the email is ignored, the submission will not be valid.

These rules will be applicable in future submissions too.
If the above mentioned rules are not followed the submission will not be accepted and marks will be deducted no matter what excuse students make.