Subject: Design and Analysis of Algorithms

Instructor: Mustafa Ali Bamboat

## Assignment – 2

Due Date: 24-Mar-2025 (7th Week)

- Q1. Write pseudocode of the following:
  - i. Bucket Sort
  - ii. Counting sort
  - iii. Radix sort

[6 marks]

Q2. show what it will print of screen if printfy(30), display only output, don't claim to prove it.

```
printfy(n)
if(n>0)
  printfy([n/2])
if n is odd then
  print '0'
else
  print '1'
```

[2 marks]

- Q3. Explain the run time complexity
- 1. Worst case complexity
- 2. Average case complexity

[2 marks]