## **Advance Programing Assignment 1**

Zip the assignment with your name and mat number and submit it on slack.

Deadline 6th March 2024

1. Given a string s, and two indices, **begin** and **end**, print a <u>substring</u> consisting of all characters in the inclusive range from **begin** to **end -1**.

```
public class Solution {

public static void main(String[] args) {

Scanner in = new Scanner(System.in);

// your implementaion should go here

// your implementaion should go here

// }

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// your implemen
```

- 2. A palindrome is a word, phrase, number, or other sequence of characters which reads the same backward or forward. Given a string, print Yes if it is a palindrome, print No otherwise.
- 3. Consider the following implementation of a class Square:

What are the errors and how to fix it?

```
public class Square{
private int sideLength;
private int area;
public Square(int initialLength){
sideLength = initialLength;
area = sideLength * sideLength;
}

public int getArea() {
return area;
}

public void grow() {
sideLength = 2 * sideLength;
}
```

13 }			
14 }			
15			
16			

- 4. Write programs with loops that compute
  - a. The sum of all even numbers between 2 and 100 (inclusive).
  - b. The sum of all squares between 1 and 100 (inclusive)
- 5. Write a program that reads a word and prints each character of the word on a separate line. For example, if the user provides the input "Harry", the program prints

Н

а

r

r

У