

**Roll No.:**

**Name:**

**Submission time:**

1. Create a folder (directory) **LABT1B** in your home directory.
2. Create a C program file **prog.c** in the folder **LABT1B**.
3. The C program **prog.c** implements the following:
  - (a) It reads an integer  $n$  from the keyboard such that  $15 < n < 35$ . If the user enters an invalid input, the code repeats the command of asking the user for the integer  $n$  until the input is correct.
  - (b) If  $n$  is divisible by 4 then it calculates and prints out the sum of the series

$$\sum_{i=n-2}^{2n-2} i^2$$

Otherwise (i.e. if  $n$  is NOT divisible by 4), it calculates and prints out the sum of the series

$$\sum_{i=n+3}^{2n+3} i^2$$

*Test data and expected output:*

Enter an integer between 15 & 35 :15

Invalid input: Enter an integer between 15 & 35 :16

Sum of the series with n=16 is 8636

Enter an integer between 15 & 35 :17

Sum of the series with n=17 is 15105

Write the following commands in the terminal and write down the output against it.

1. pwd

**Output:**

2. ls

**Output:**

3. ./a.out (with input n=22)

**Output:**