

CS0.101: Computer Programming (Section B)

Quiz 1 (Fall 2023)

Duration: 45 mins

Question 1: (5 marks)

Write a program to find the sum of first n even numbers. Here n can be taken to be an input from the user.

Question 2: (5 marks)

Explain the control flow between the RAM, Hard disk and the CPU after a program is written.

Question 3: (5 marks)

Write -15 in 1's complement form (assume 8-bit representation).

1000 1111
2421

Question 4: (5 marks)

State True/False with justification: Given two numbers x and y , the expression $y \wedge ((x \wedge y) \& \neg (x < y))$ calculates the minimum of the two numbers.

1's
01110000

Question 5: (10 marks)

Write a program to print the following pattern.

1
2 3
4 5 6
7 8 9 10