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).

Question 4: (5 marks)

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

Question 5: (10 marks)

Write a program to print the following pattern.

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Question 6:

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What is output of the following programs with proper justification?

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1. (5 marks)
        \#include<stdio.h>
        int main()
        int x=7, y, z;
       y = - - x;
       z = x + +;
printf("%d%d%d\n", x, y, z);
       return 0;
    2. (5 marks)
       #include<stdio.h>
      int main()
      int i;
      for(i = 9; i!=0; i - -)
             printf("i= %d n", i - -);
      return 0;
  3. (5 marks)
     \#include<stdio.h>
     int main()
    int x = 4, y = 4, z = 4;
    if (x == y == z)
          printf("YES");
   else
          printf("NO");
   return 0;
4. (5 marks)
  \#include<stdio.h>
  int main()
  printf("%d", printf("Hello World"));
 return 0;
```