

## ASSIGNMENT

By

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*Roll Number* : 2023A1R149

*Semester* : Ist

*Department Name* : CSE



**Model Institute of Engineering & Technology (Autonomous)**

(Permanently Affiliated to the University of Jammu, Accredited by NAAC with “A” Grade)

Jammu, India

2023

**ASSIGNMENT****Subject Code:** Subject Name**Due Date:**

Question Number	Course Outcomes	Blooms' Level	Maximum Marks	Marks Obtain
Q1	CO 4	3-6	10	
Q2	CO 5	3-6	10	
<b>Total Marks</b>			20	
Faculty Signature Email:				

**Assignment Objectives:**

Clearly define the objectives and learning outcomes of the assignment. What should students be able to demonstrate or achieve after completing this assignment?

**Assignment Instructions:**

- Group Size: Assignments will be completed in groups of 4-6 students.*
- Assessment Rubrics*
- Submission Method: Specify how and where students should submit their completed assignments (e.g., Camu LMS, Google Drive, in-person).*

**Guidelines for Each Question:**

For each of the questions (including subparts, if any) within the assignment, provide clear instructions, including details on the content, format, and assessment criteria including rubrics. Ensure that the questions are designed to evaluate students' problem-solving skills and knowledge application.

Q. No.	Question	BL	CO	Marks	Total Marks
1	Write a program in C for printing fibonacci sequence for a given number of terms.			10	10
2	Write a program in C to print the largest three digit jumping number.			10	10



```
PS C:\Users\samba\OneDrive\Documents\c assignment> cd "c:\Users\samba\OneDrive\Documents\c assignment\" ; if ($?) { gcc question1.c -o question1 } ; if ($?) { .\question1 }
```

Enter the number of terms for Fibonacci sequence: 15

Fibonacci Sequence for 15 terms:

0 1 1 2 3 5 8 13 21 34 55 89 144 233 377

```
PS C:\Users\samba\OneDrive\Documents\c assignment> █
```

```
1 //write a program in C to print the largest three digit jumping numbers.
```

```
2 #include <stdio.h>
```

```
3 #include<stdlib.h>
```

```
4  
5 int main() {
```

```
6     printf("Largest three-digit jumping numbers:\n");
```

```
7     for (int num = 987; num >= 210; num--) {
```

```
8         int temp = num;
```

```
9         int digit1 = temp % 10;
```

```
10        temp /= 10;
```

```
11        int digit2 = temp % 10;
```

```
12        temp /= 10;
```

```
13        int digit3 = temp;
```

```
14  
15        if (abs(digit1 - digit2) == 1 && abs(digit2 - digit3) == 1)
```

```
16            printf("%d, ", num);
```

```
17    }
```

```
18  
19    return 0;
```

```
20 }
```

```
PS C:\Users\samba\OneDrive\Documents\c assignment> cd "c:\Users\samba\OneDrive\Documents\c assignment\" ; if ($?) { gcc question2.c -o question2 } ; if ($?) { .\question2 }
Largest three-digit jumping numbers:
987, 898, 878, 876, 789, 787, 767, 765, 678, 676, 656, 654, 567, 565, 545, 543, 456, 454, 434, 432, 345, 343, 323, 321, 234, 232, 212, 210,
PS C:\Users\samba\OneDrive\Documents\c assignment> █
```