**ASSIGNMENT**

**BY**

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**2023A7R041**

**SEMESTER 1ST**

**COMPUTER SCIENCE ENGINEERING (CYBER SECURITY)**

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

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

Jammu, India

2023



**ASSIGNMENT**

**1. Write A Program To Calculate Difference Between Two Time Periods**

**Description:**

**H M S**

**Start Time: 5 34 21**

**End Time : 6 17 10**

**Time differences : 5:34:21 – 6:17:10 = -1:17:11**

***CODE***

#include <stdio.h>

Int main() {

Int hours,min,sec;

Int h1,min1,sec1;

Int h2,min2,sec2;

Printf(“Use format hourse,minutes,seconds\n”);

Printf(“enter time1:”);

Scanf(“%d%d%d”,&h1,&min1,&sec1);

Printf(“enter time2:”);

Scanf(“%d%d%d”,&h2,&min2,&sec2);

Int totalseconds1= h1\*3600 +min1\*60 +sec1;

Int totalseconds2= h2\*3600 +min2\*60 +sec2;

Sec=(totalseconds1 -totalseconds2);

Hours =sec/3600;

Min =(sec%3600)/60;

Sec =sec%60;

If (sec < 0) {

Hours=-hours;

Min =-min;

Sec =-sec;

}

Printf(“The Time Difference %d:%d:%d”,hours,min,sec);

Return 0;

}

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Description automatically generated

**01: code 1 output**

**2. Write a C program to find the factorial of a number using a recursive function**

***CODE***

#include<stdio.h>

int fact(int n);

void main(){

int num,fact1;

printf("enter the number");

scanf("%d",&num);

fact1=fact(num);

printf("factorial of %d is%d",num,fact1);}

int fact(int n){

if (n==0)

return 1;

else

return n\*fact(n-1);}



**02: code 2 output**