ASSIGNMENT

 \mathbf{BY}

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SEMESTER 1ST

COMPUTER SCIENCE ENGINEERING (CYBER SECURITY)



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:
          HMS
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;
```

Assignment: Introduction to c language

Subject code: COM-101

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);}
```