ASSIGNMENT-5

2nd
SEMESTER

Write a program
for following
questions

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Q1. WAP to find sum of n integer terms.

```c
# include <stdio.h>

int main () {

    int n, sum=0;
    printf (" Enter the number := ");
    scanf ("%d", &n);

    for (int i= 1; i <=n; i++){

        sum =  sum +i;
    }

    printf ("\n The sum till n is = %d", sum);

}
```

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

SUM.cpp

```c
#include <stdio.h>

int main(){
    int n,sum=0;
    printf("Enter the number:= ");
    scanf("%d",&n);
    for (int i = 1; i <= n; i++)
    {
        sum = sum+i;
    }

    printf("\nThe sum till n is = %d",sum);
}
```

C:\Users\mihir\Desktop\Assignment\CSL\Ass_4\SUM.exe
```
Enter the number:= 8

The sum till n is = 36
--------------------------------
Process exited after 2.067 seconds with return value 0
Press any key to continue . . .
```

Line: 14   Col: 1   Sel: 0   Lines: 14   Length: 221   Insert   Done parsing in 0.016 seconds

Type here to search   ENG   01:24
                                                                                            13-05-2021

02. WAP to print table of any number.

```c
#include <stdio.h>

int main() {

    int n, i;
    printf("Enter an Integer?");
    scanf("%d", &n);

    for(i=1; i<=10; ++i)
    {
        printf("%d * %d = %d \n", n, i, n*i);
    }

    return 0;
}
```

```c
#include <stdio.h>
int main() {
    int n, i;
    printf("Enter an integer: ");
    scanf("%d", &n);
    for (i = 1; i <= 10; ++i) {
        printf("%d * %d = %d \n", n, i, n * i);
    }
    return 0;
}
```

C:\Users\mihir\Desktop\Assignment\CSL\Ass_4\table.exe

Enter an integer: 19
19 * 1 = 19
19 * 2 = 38
19 * 3 = 57
19 * 4 = 76
19 * 5 = 95
19 * 6 = 114
19 * 7 = 133
19 * 8 = 152
19 * 9 = 171
19 * 10 = 190

Process exited after 4.614 seconds with return value 0
Press any key to continue . . .

Q16. WAP to find factorial of any given number.

```c
#include <stdio.h>

int main () {
    int n, i;
    long int fact = 1;

    printf ("Enter an integer: ");
    scanf ("%d", &n);

    if (n<0)
    {
        printf ("Error ! factorial of a negative number doesn't exist");
    }

    else {
        for (i=1; i<=n; ++i) {

            fact = fact * i;
        }

        print ("factorial of %d = %ld", n, fact);
    }

    return 0;
}
```

```c
#include <stdio.h>
int main() {
    int n, i;
    long int fact = 1;
    printf("Enter an integer: ");
    scanf("%d", &n);

    if (n < 0)
        printf("Error! Factorial of a negative number doesn't exist.");
    else {
        for (i = 1; i <= n; ++i) {
            fact = fact*i;
        }
        printf("Factorial of %d = %ld", n, fact);
    }

    return 0;
}
```

public int __cdecl printf (const char * __restrict__ _Format, ...)

```
C:\Users\mihir\Desktop\Assignment\CSL\Ass_4\table.exe

Enter an integer: 5
Factorial of 5 = 120
--------------------------------
Process exited after 4.569 seconds with return value 0
Press any key to continue . . .
```

Q4. Write a program to reverse an inputed number

```c
#include <stdio.h>

int main () {

    int n, revno =0, remainder;
    scanf("%d", &n);

    while (n > 0)
    {
        remainder = n%10;
        revno = revno *10 + remainder;
        n = n/10;
    }

    printf("%d", revno);

    return 0;

}.
```

```c
#include <stdio.h>


int main(){
    int n,revno=0,remainder;
    scanf("%d",&n);
    while (n>0)
    {
        remainder=n%10;
        revno=revno*10+remainder;
        n = n/10;
    }
    printf("%d",revno);
    return 0;
}
```

```
723776
677327
--------------------------------
Process exited after 3.839 seconds with return value 0
Press any key to continue . . .
```