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L5CG24

Q.1. Find the sum of numbers from 1 to 10.

```
#include <stdio.h>
int main(){

    int sum = 0;

    for (int i = 1; i<=10; i++){
        sum += i;
    }

    printf("The sum of number from 1 to 10 is: %d\n", sum);
    return 0;
}</pre>
```

Q.2. Find the factorial of a number

```
#include <stdio.h>
int main(){
    int num, factorial = 1;

    printf("Enter a positive integer: ");
    scanf("%d",&num);

for (int i = 1; i<=num; i++){
        factorial *= i;

    }

    printf("The factorial of %d is: %d\n",num,factorial);
    return 0;
}</pre>
```

```
Enter a positive integer: 3
The factorial of 3 is: 6

------
Process exited after 1.574 seconds with return value 0
Press any key to continue . . .
```

Q3. Print all triangular numbers from 1 up to nth term.

```
#include <stdio.h>
int printTriangularNumber(int n){
      for (int i = 1; i <= n; i++){
             int triangularNumber = i * (i+2) / 2;
             printf("%d",triangularNumber);
      }
      printf("\n");
}
int main(){
      int n;
      printf("Enter the number of terms: ");
      scanf("%d",&n);
      if (n>0){
             printf("Triangular numbers upto %dth term:\n",n);
             printTriangularNumber(n);
      }else{
             printf("Please enter a positive integer.\n");
      }
      return 0;
}
```

```
Enter the number of terms: 3
Triangular numbers upto 3th term:
147

------
Process exited after 1.272 seconds with return value 0
Press any key to continue . . .
```

Q4. Input a character and print it in lowercase.

#include <stdio.h>

```
int main(){
    char ch;

printf("Enter a character: ");
    scanf(" %c",&ch);

if(ch>= 'A' && ch<='Z'){
        ch = ch + ('a' - 'A');
    }

printf("The lowercase character is: %c",ch);
    return 0;
}</pre>
```

```
Enter a character: N
The lowercase character is: n
------
Process exited after 1.647 seconds with return value 0
Press any key to continue . . .
```

Q.5. Input characters until Enter is pressed

```
Enter characters (press Enter to stop):
s r i j a n
s
r
i
j
a
n
Process exited after 5.815 seconds with return value 0
Press any key to continue . . .
```

Q.6. Print the pattern using nested loops.

```
#include <stdio.h>
int printTriangularNumber(int n){
      for (int i = 1; i <= n; i++){
             int triangularNumber = i * (i+2) / 2;
             printf("%d",triangularNumber);
      }
      printf("\n");
}
int main(){
      int n;
      printf("Enter the number of terms: ");
      scanf("%d",&n);
      if (n>0){
             printf("Triangular numbers upto %dth term:\n",n);
             printTriangularNumber(n);
      }else{
             printf("Please enter a positive integer.\n");
      }
      return 0;
}
```

```
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```

Thank You!