

# Task 1 Report

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## Task 1.1

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Write a program that reads from the console three numbers of type `int` and prints their sum

### Code

```
int sum = 0;

for (int i = 1; i <= 3; i++) {
    Console.WriteLine($"Enter Number {i}:");
    sum += Convert.ToInt32(Console.ReadLine());
}

Console.WriteLine(sum);
```

### Runtime

```
Enter Number 1:
4
Enter Number 2:
5
Enter Number 3:
9
18
```

## Task 1.2

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Write a program that reads from the console the radius of a circle and prints its perimeter and area

### Code

```
const double PIE = 22.0 / 7.0;
Console.WriteLine("Enter Radius:");
double radius = Convert.ToDouble(Console.ReadLine());

Console.WriteLine($"Perimeter: {2*PIE*radius}");
Console.WriteLine($"Area: {PIE*radius*radius}");
```

## Runtime

```
Enter Radius:
7
Perimeter: 44
Area: 154
```

## Task 1.3

A given company has a name, an address, a phone number, a fax number, a website and a manager. The manager has a name, a surname and a phone number. Write a program that reads the info about the company and the manager and prints them into the console.

## Code

```
Console.WriteLine("Enter Company Name:");
string? companyName = Console.ReadLine();
Console.WriteLine("Enter Company Address:");
string? companyAddress = Console.ReadLine();
Console.WriteLine("Enter Company Phone Number:");
string? companyPhoneNumber = Console.ReadLine();
Console.WriteLine("Enter Company Fax Number:");
string? companyFaxNumber = Console.ReadLine();
Console.WriteLine("Enter Company Website:");
string? companyWebsite = Console.ReadLine();
Console.WriteLine("Enter Company Manager Name:");
string? managerName = Console.ReadLine();
Console.WriteLine("Enter Company Manager Surname:");
string? managerSurname = Console.ReadLine();
Console.WriteLine("Enter Company Manager Phone Number:");
string? managerPhoneNumber = Console.ReadLine();

// `$` Allows embedding variables to string
// `@` Allows Multiline string
Console.WriteLine($"
Welcome at {companyName},
Mr. {managerName} {managerSurname}, the manager,
will be waiting for you tomorrow at his office.
You can always reach us through:
Address: {companyAddress}
Phone Number: {companyPhoneNumber}
Fax Number: {companyFaxNumber}
Website: {companyWebsite}
Manager Phone Number: {managerPhoneNumber}
");
```

## Runtime

```
Enter Company Name:
ODC
Enter Company Address:
Cairo, Egypt
Enter Company Phone Number:
+20129394921
Enter Company Fax Number:
+20198872342
Enter Company Website:
www.google.com
Enter Company Manager Name:
Samir
Enter Company Manager Surname:
Ali
Enter Company Manager Phone Number:
+20193278783
```

```
Welcome at ODC,
Mr. Samir Ali, the manager,
will be waiting for you tomorrow at his office.
You can always reach us through:
Address: Cairo, Egypt
Phone Number: +20129394921
Fax Number: +20198872342
Website: www.google.com
Manager Phone Number: +20193278783
```

## Task 1.4

Print the following pattern using for loops

```
*****
*****
***
*
```

## Code

```
const int LENGTH = 7;

for (int i = LENGTH; i > 0; i-=2) {
    int spaces = (LENGTH - i) / 2;
    for (int j = 0; j < spaces; j++) Console.Write(" ");
    for (int k = 0; k < i; k++) Console.Write("*");
    Console.WriteLine();
}
```

# Runtime

```
*****
*****
***
*
```