**Practical No: 1**

**Date: 24/02/2023**

**Aim:** Installation of .NET SDK & Building First Console APP

**Description:**

Give Overview**.NET SDK**

The .NET SDK is a set of libraries and tools that allow developers to create .NET applications and libraries. It contains the following components that are used to build and run applications:

• The .NET CLI.

The .NET command-line interface (CLI) is a cross-platform toolchain for developing, building, running, and publishing .NET applications.

• The .NET runtime and libraries.

The .NET runtime, which is installed on a machine for use by framework-dependent apps, has an expansive standard set of class libraries, known as runtime libraries, framework libraries, or the base class library (BCL). In addition, there are extensions to the runtime libraries, provided in NuGet packages.

• The dotnet driver.

NET driver provides an interface to the Microsoft . NET open source software framework for developing applications. The driver was developed using Visual Studio. For complete installation and usage instructions, as well as developer notes and the source code, see the GitHub Snowflake .

**Code & Output:**

Net SDK Download

Link:

<https://dotnet.microsoft.com/learn/dotnet/hello-world-tutorial/install>

1. Download and install

To start building .NET apps you just need to download and install the .NET SDK (Software Development Kit).

1. Check everything installed correctly

Once you've installed, open a new command prompt and run the following command:  
Command prompt> dotnet  
Text

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1. Create your app

In your command prompt, run the following commands:

Command prompt

>dotnet new console -o myApp

>cd myApp

The main file in the myApp folder is Program.cs. By default, it already contains the necessary code to write "Hello World!" to the Console.

Program.cs

using System;

namespace myApp

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Hello World!");

}

}

}

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1. Run your app

In your command prompt, run the following command:

Command prompt

> dotnet run

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>dotnet restore

>dotnet run

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**Print even odd number from 1 to 30**

**CODE**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

int i = 0;

Console.WriteLine("Print even odd number from 1 to 30");

Console.WriteLine("\nNinad Karlekar 22306A1012");

Console.WriteLine("\nEven Numbers :");

for (i = 1; i <= 30; i++)

{

if (i % 2 == 0)

{

Console.Write(i + " ");

}

}

Console.WriteLine("\nOdd Numbers :");

for (i = 1; i <= 30; i++)

{

if (i % 2 != 0)

{

Console.Write(i + " ");

}

}

Console.WriteLine();

}

}

}

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