

**Task No 01:** Create a program to check whether the No is even or odd.

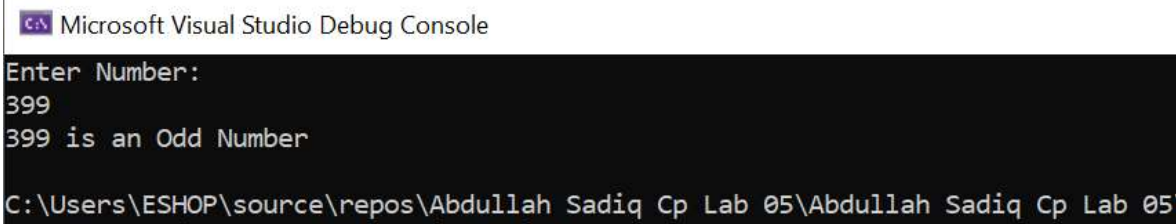
**Input:**

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_05
{
    class Program
    {
        static void Main(string[] args)
        {
            int num;
            string result;
            Console.WriteLine("Enter Number:");
            num = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine(num);

            result = (num % 2 == 0) ? (" is an Even Number") : (" is an Odd Number");
            Console.WriteLine(result);
        }
    }
}
```

**Output:**



```
Microsoft Visual Studio Debug Console

Enter Number:
399
399 is an Odd Number

C:\Users\ESHOP\source\repos\Abdullah Sadiq Cp Lab 05\Abdullah Sadiq Cp Lab 05
```

**Task No 02:** Create a simple calculator using if else condition in which you will take two number as input and ask user which operation he/she wants to perform.

**Input:**

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_05
{
    class Program
    {
        static void Main(string[] args)
        {
            char operation;
            int num1, num2, result;
            Console.WriteLine("Enter First Number:");
            num1 = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Second Number:");
            num2 = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Operation (+,-,*,/)");
            operation = Convert.ToChar(Console.ReadLine());

            switch (operation)
            {
                case '+':
                    result = num1 + num2;

```

### Output:

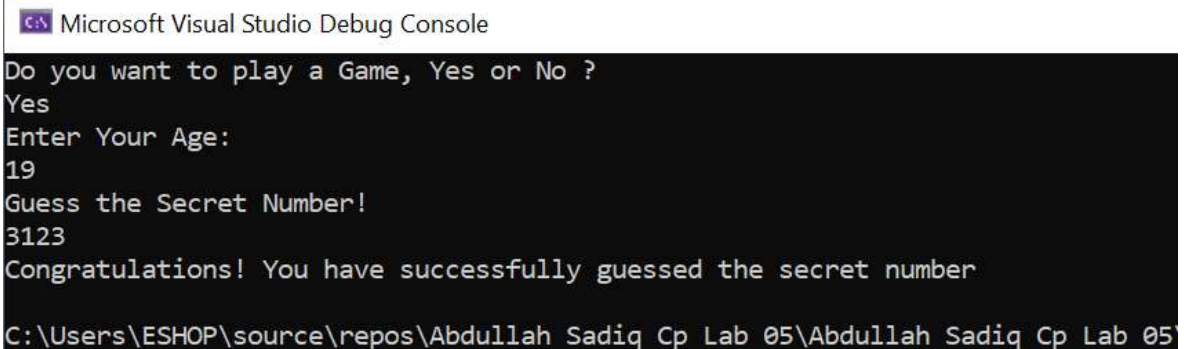
**Task No 03:** Write a Program using nested ifs in which the user is asked to do the following:

- Note:** You have to store a secret number in a variable in order to compare it.

**Input:**

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_05
{
    class Program
    {
        static void Main(string[] args)
        {
            int secretNumber = 3123;
            int secretNumberIn;
            Console.WriteLine("Do you want to play a Game, Yes or No ?");
            string opt = Console.ReadLine();
            if (opt == "Yes" || opt == "No")
            {
                Console.WriteLine("Enter Your Age:");
                int age = Convert.ToInt32(Console.ReadLine());
                if (age > 5)
                {
                    Console.WriteLine("Guess the Secret Number!");
                    secretNumberIn = Convert.ToInt32(Console.ReadLine());
                    if (secretNumber == secretNumberIn)
                    {
                        Console.WriteLine("Congratulations! You have successfully
guessed the secret number");
                    }
                    else
                    {
                        Console.WriteLine("Sorry, You were not successful in guessing
the secret Number");
                    }
                }
                else
                {
                    Console.WriteLine("Too Young to Play!");
                }
            }
            else
            {
                Console.WriteLine("Ok sure, Have a Nice Day");
            }
        }
    }
}
```

**Output:**

The screenshot shows the Microsoft Visual Studio Debug Console with the following text:

```
C:\Users\ESHOP\source\repos\Abdullah Sadiq Cp Lab 05\Abdullah Sadiq Cp Lab 05
Do you want to play a Game, Yes or No ?
Yes
Enter Your Age:
19
Guess the Secret Number!
3123
Congratulations! You have successfully guessed the secret number
C:\Users\ESHOP\source\repos\Abdullah Sadiq Cp Lab 05\Abdullah Sadiq Cp Lab 05
```

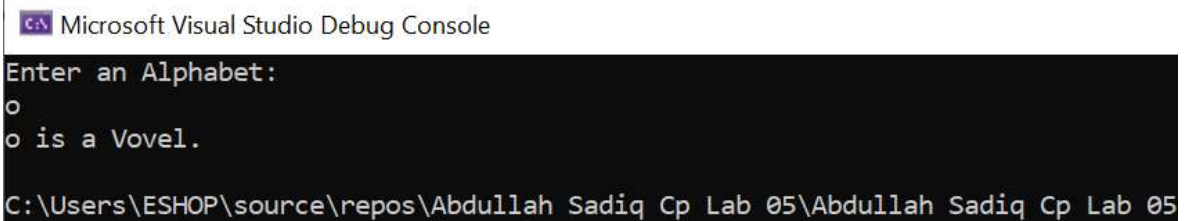
**Task No 04:** Create a simple application which will check the vowel using switch case.

**Input:**

```
using System;

namespace Abdullah_Sadiq_Cp_Lab_05
{
    class Program
    {
        static void Main(string[] args)
        {
            string v;
            Console.WriteLine("Enter an Alphabet:");
            v = Console.ReadLine();
            switch (v)
            {
                case "a":
                    Console.WriteLine("{0} is a Vowel.", v);
                    break;
                case "e":
                    Console.WriteLine("{0} is a Vowel.", v);
                    break;
                case "i":
                    Console.WriteLine("{0} is a Vowel.", v);
                    break;
                case "o":
                    Console.WriteLine("{0} is a Vowel.", v);
                    break;
                case "u":
                    Console.WriteLine("{0} is a Vowel.", v);
                    break;
                default:
                    Console.WriteLine("{0} is a Consonant.", v);
                    break;
            }
        }
    }
}
```

**Output:**



The screenshot shows the Microsoft Visual Studio Debug Console. The first line is the prompt "Enter an Alphabet:". The user has entered the character 'o'. The program's output is "o is a Vowel.". The console's title bar indicates the path "C:\Users\ESHOP\source\repos\Abdullah Sadiq Cp Lab 05\Abdullah Sadiq Cp Lab 05".

## Task No 05: Create a simple program for Bahria Check in system.

### Input:

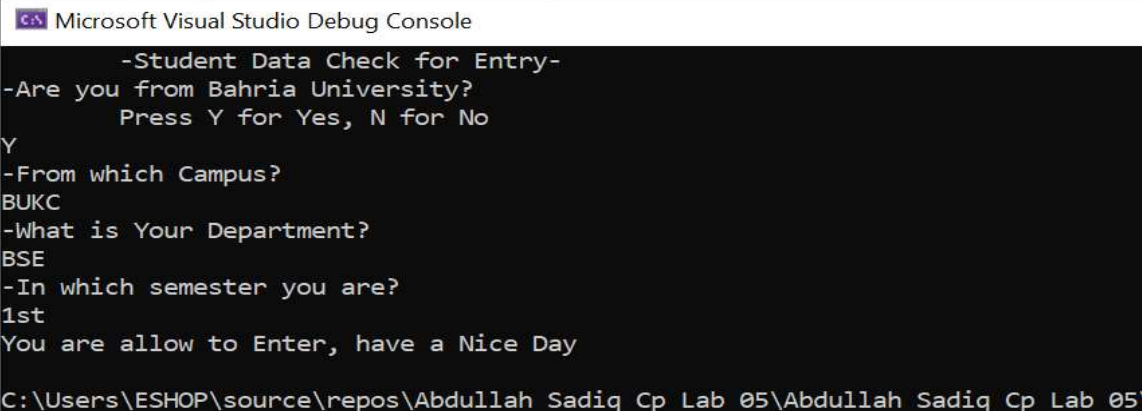
```
using System;

namespace Abdullah_Sadiq_Cp_Lab_05
{
    class Program
    {
        static void Main(string[] args)
        {
            string campus = "BUKC";
            string campusIn;

            Console.WriteLine("\t-Student Data Check for Entry-");
            Console.WriteLine("-Are you from Bahria University?");
            Console.WriteLine("\tPress Y for Yes, N for No");
            string opt = Console.ReadLine();
            if (opt == "Y")
            {
                Console.WriteLine("-From which Campus?");
                campusIn = Console.ReadLine();

                if (campus == campusIn)
                {
                    Console.WriteLine("You are allow to Enter, have a Nice Day");
                }
                else
                {
                    Console.WriteLine("Sorry you are not allow to Enter BUKC");
                }
            }
            else
            {
                Console.WriteLine("Sorry You are not allow to enter Bahria
University");
            }
        }
    }
}
```

### Output:



The screenshot shows the Microsoft Visual Studio Debug Console with the following output:

```
C:\Users\ESHOP\source\repos\Abdullah Sadiq Cp Lab 05\Abdullah Sadiq Cp Lab 05\
-Student Data Check for Entry-
-Are you from Bahria University?
Press Y for Yes, N for No
Y
-From which Campus?
BUKC
-What is Your Department?
BSE
-In which semester you are?
1st
You are allow to Enter, have a Nice Day
C:\Users\ESHOP\source\repos\Abdullah Sadiq Cp Lab 05\Abdullah Sadiq Cp Lab 05\
```