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**Advanced Web Development**

**Practical 1**

**a. Aim :** Create an application to print on screen, the output of adding, subtracting, multiplying, and dividing two numbers entered by the user in C#.

**Code :**

```
using System;

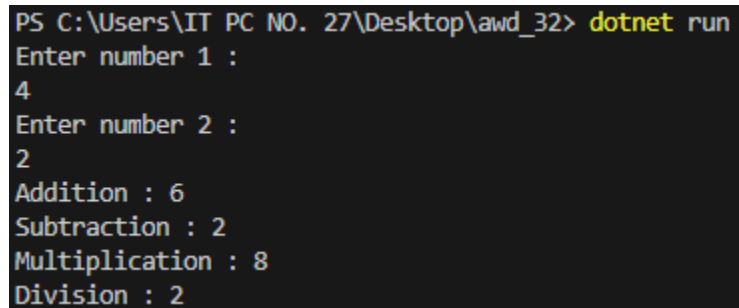
namespace awd_32
{
    class program_
    {
        public static void Main()
        {
            int a, b, r1, r2, r3, r4;

            Console.WriteLine("Enter number 1 : ");
            a = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Enter number 2 : ");
            b = Convert.ToInt32(Console.ReadLine());
```

```
    r1 = a + b;  
    r2 = a - b;  
    r3 = a * b;  
    r4 = a / b;  
  
    Console.WriteLine("Addition : "+r1);  
    Console.WriteLine("Subtraction : "+r2);  
    Console.WriteLine("Multiplication : "+r3);  
    Console.WriteLine("Division : "+r4);  
}  
}  
}
```

### Output :



```
PS C:\Users\IT PC NO. 27\Desktop\awd_32> dotnet run  
Enter number 1 :  
4  
Enter number 2 :  
2  
Addition : 6  
Subtraction : 2  
Multiplication : 8  
Division : 2
```

**b. Aim :** Create an application to print Floyd's triangle till n rows in C#.

**Code :**

```
using System;

class program_
{
    static void printFloydTriangle(int n)
    {
        int i, j, val = 1;
        for(i = 1; i <= n; i++)
        {
            for(j = 1; j <= i; j++)
            {
                Console.Write(val + " ");
                val++;
            }
            Console.WriteLine();
        }
    }

    public static void Main()
    {
```

```
        printFloydTriangle(6);  
    }  
}
```

**Output :**

```
PS C:\Users\IT PC NO. 27\Desktop\awd_32> dotnet run  
1  
2 3  
4 5 6  
7 8 9 10  
11 12 13 14 15  
16 17 18 19 20 21
```

c. Create an application to demonstrate the following operations : i. Generate Fibonacci series ii. Test for Prime Numbers.

**Code :**

```
using System;

namespace awd_32

{

    public class Program

    {

        public static void Main(string[] args)

        {

            Console.WriteLine("Choose 1 or 2 : ");

            int item = Convert.ToInt32(Console.ReadLine());

            switch(item)

            {

                case 1:

                {

                    int val1 = 0, val2 = 1, val3, i, n;

                    Console.WriteLine("Fibonacci Series");

                    Console.WriteLine("=====");

                    Console.WriteLine("Enter value : ");

                    n = Convert.ToInt32(Console.ReadLine());

                    Console.Write(val1 + " " + val2 + " ");
```

```

for(i = 2; i < n; ++i)
{
    val3 = val1 + val2;

    Console.Write(val3 + " ");

    val1 = val2;
    val2 = val3;
}

break;
}

case 2:
{
    int a = 0;

    Console.WriteLine("Enter value : ");

    int num = Convert.ToInt32(Console.ReadLine());

    for(int i_ = 1; i_ <= num; i_++)
    {
        if(num % i_ == 0)
        {
            a++;
        }
    }

    if(a == 2)
    {

```

```

        Console.WriteLine("{0} is a Prime Number.",num);
    }
    else
    {
        Console.WriteLine("{0} is not a Prime Number.",num);
    }
    Console.ReadLine();

    break;
}
default:
    Console.WriteLine("No match found.");
    break;
}
}
}
}
}

```

### **Output :**

```

Choose 1 or 2 :
1
Fibonacci Series
=====
9
0 1 1 2 3 5 8 13 21

```

```

Choose 1 or 2 :
2
Enter value :
7
7 is a Prime Number.

```

```

Choose 1 or 2 :
2
Enter value :
6
6 is not a Prime Number.

```