

.net phase-2

1. using System;

class Program

{

static void Main()

{

// Prompt and read user inputs

Console.Write("Enter your name: ");

string name = Console.ReadLine();

Console.Write("Enter your age: ");

string age = Console.ReadLine();

Console.Write("Enter your country: ");

string country = Console.ReadLine();

// Format and display the output

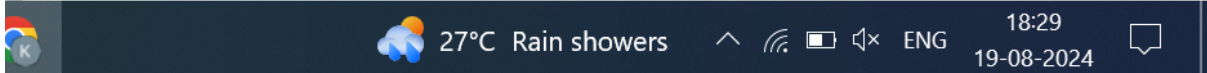
Console.WriteLine(\$"Welcome {name}, your age is {age}
and you are from {country}.");

}

}

Output:-

```
Output Clear  
^ mono /tmp/SRbW0frmdi.exe  
Enter your name: leone  
Enter your age: 30  
Enter your country: france  
Welcome leone, your age is 30 and you are from france.  
  
=== Code Execution Successful ===
```



2. code:-

```
using System;
```

```
class Program
```

```
{
```

```
    // Static method to calculate the square of a number
```

```
    static int Square(int number)
```

```
    {
```

```
        return number * number;
```

```
    }
```

```
    // Static method to calculate the cube of a number
```

```
    static int Cube(int number)
```

```
    {
```

```
        return number * number * number;
```

```
    }
```

```
    static void Main()
```

```
    {
```

```
        // Prompt the user to enter a number
```

```
        Console.Write("Enter a number: ");
```

```
int number = int.Parse(Console.ReadLine());

// Call the methods and store the results
int square = Square(number);
int cube = Cube(number);

// Output the results
Console.WriteLine($"Square of {number} is {square}");
Console.WriteLine($"Cube of {number} is {cube}");
}
}
```

Output:-

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Output

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```
mono /tmp/1DYvc88oq2.exe
Enter a number: 4
Square of 4 is 16
Cube of 4 is 64

=== Code Execution Successful ===
```

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3. code

```
using System;
```

```
class Program
```

```
{
```

```
    static void Main()
```

```
    {
```

```
        Console.WriteLine("Enter the value of a:");
```

```
        int a= Convert.ToInt32(Console.ReadLine());
```

```
        Console.WriteLine("Enter the value of b:");
```

```
        int b= Convert.ToInt32(Console.ReadLine());
```

```
        bool res =a<b;
```

```
        Console.WriteLine("the result is whether a is less than y  
+res");
```

```
    }
```

```
}
```

OUTPUT:-

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Output




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```
mono /tmp/VnQJVlMio4.exe
Enter the value of a:
7
Enter the value of b:
6
the result is whether a is less than y +res


=== Code Execution Successful ===
```

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4.code bill details

using System;

class Program

{

static void Main()

{

// Define the prices for each item

const decimal pricePerPizza = 200m;

const decimal pricePerPuff = 40m;

const decimal pricePerPepsi = 120m;

// Input: number of items bought

Console.Write("Enter the number of pizzas bought: ");

int numPizzas = int.Parse(Console.ReadLine());

Console.Write("Enter the number of puffs bought: ");

int numPuffs = int.Parse(Console.ReadLine());

Console.Write("Enter the number of peptis bought: ");

int numPeptis = int.Parse(Console.ReadLine());


```
// Calculate the costs
decimal costOfPizzas = numPizzas * pricePerPizza;
decimal costOfPuffs = numPuffs * pricePerPuff;
decimal costOfPepsi = numPepsis * pricePerPepsi;

// Calculate GST and Cess
const decimal gstPercentage = 12m;
const decimal cessPercentage = 5m;

decimal gst = (costOfPizzas + costOfPuffs + costOfPepsi)
* gstPercentage / 100;

decimal cess = (costOfPizzas + costOfPuffs + costOfPepsi)
* cessPercentage / 100;

// Calculate total price
decimal totalPrice = costOfPizzas + costOfPuffs +
costOfPepsi + gst + cess;

// Output: bill details
Console.WriteLine("Bill Details");
Console.WriteLine($"Cost of pizzas: {costOfPizzas}");
Console.WriteLine($"Cost of puffs: {costOfPuffs}");
Console.WriteLine($"Cost of pepsi: {costOfPepsi}");
```

```
    Console.WriteLine($"GST ({gstPercentage}%): {gst}");  
    Console.WriteLine($"Cess ({cessPercentage}%): {cess}");  
    Console.WriteLine($"Total Price: {totalPrice}");  
}  
}
```

Output:-

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```
mono /tmp/Mt78PrTYIt.exe
Enter the number of pizzas bought: 5
Enter the number of puffs bought: 6
Enter the number of pepsis bought: 2
Bill Details
Cost of pizzas: 1000
Cost of puffs: 240
Cost of pepsi: 240
GST (12%): 177.6
Cess (5%): 74
Total Price: 1731.6


=== Code Execution Successful ===
```



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5.code

using System;

class Program

{

static void Main()

{

// Define the number to compare

int number = 125;

// Define the maximum value for a signed byte

sbyte maxSignedByteValue = sbyte.MaxValue;

// Output the largest value stored in a signed byte

Console.WriteLine("Largest value stored in a signed byte:
" + maxSignedByteValue);

// Optionally, also compare the input number with the
maximum value

if (number > maxSignedByteValue)

{

Console.WriteLine("The number " + number + " is
greater than the maximum value of a signed byte.");

```
    }  
    else  
    {  
        Console.WriteLine("The number " + number + " is  
within the range of a signed byte.");  
    }  
}  
}
```

Output:-

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Output





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```
mono /tmp/8Bitk7LCBq.exe
Largest value stored in a signed byte: 127
The number 125 is within the range of a signed byte.

=== Code Execution Successful ===
```



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