

## Day -2 of .net assignment

### 1. Code of account details:-

```
using System;
```

```
class BankAccount
```

```
{
```

```
    public int AccountId { get; set; }
```

```
    public string AccountType { get; set; }
```

```
    public double Balance { get; private set; }
```

```
    public BankAccount(int accountId, string accountType,  
double initialBalance)
```

```
    {
```

```
        AccountId = accountId;
```

```
        AccountType = accountType;
```

```
        Balance = initialBalance;
```

```
    }
```

```
    public void Withdraw(double amount)
```

```
{  
    if (amount <= Balance)  
    {  
        Balance -= amount;  
        Console.WriteLine("Withdrawal successful. New  
balance: " + Balance);  
    }  
    else  
    {  
        Console.WriteLine("Insufficient funds.");  
    }  
}
```

```
public override string ToString()  
{  
    return $"Account Id: {AccountId}\nAccount Type:  
{AccountType}\nBalance: {Balance}";  
}  
}
```

```
class Program  
{
```

```
static void Main()
{
    // Sample Input 1
    BankAccount account1 = new BankAccount(111,
"savings", 5000);
    Console.WriteLine(account1);
    account1.Withdraw(3000);
    Console.WriteLine(account1);

    // Sample Input 2
    BankAccount account2 = new BankAccount(123,
"current", 3567);
    Console.WriteLine(account2);
    // Withdraw amount not given in the image
}
}
```

OutPut:-

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Output

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```
mono /tmp/60fSJcRYeS.exe
Account Id: 111
Account Type: savings
Balance: 5000
Withdrawal successful. New balance: 2000
Account Id: 111
Account Type: savings
Balance: 2000
Account Id: 123
Account Type: current
Balance: 3567

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

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2.code of the addition ,subtraction and division.

```
using System;
```

```
class Program
```

```
{
```

```
    static void Main(string[] args)
```

```
    {
```

```
        while (true)
```

```
        {
```

```
            Console.WriteLine("Enter the operator:");
```

```
            string op = Console.ReadLine();
```

```
            if (op == "+" || op == "-" || op == "*" || op == "/")
```

```
            {
```

```
                Console.WriteLine("Enter the first operand:");
```

```
                int num1 = int.Parse(Console.ReadLine());
```

```
                Console.WriteLine("Enter the second operand:");
```

```
                int num2 = int.Parse(Console.ReadLine());
```

```
                switch (op)
```

```
                {
```

```
                    case "+":
```

```
        Console.WriteLine($"Result of {num1} + {num2}
is {num1 + num2}");
        break;
    case "-":
        Console.WriteLine($"Result of {num1} - {num2}
is {num1 - num2}");
        break;
    case "*":
        Console.WriteLine($"Result of {num1} * {num2}
is {num1 * num2}");
        break;
    case "/":
        if (num2 == 0)
        {
            Console.WriteLine("Division by zero not
allowed.");
        }
        else
        {
            Console.WriteLine($"Result of {num1} /
{num2} is {num1 / num2}");
            Console.WriteLine($"Remainder: {num1 %
num2}");
        }
    }
```

```
        }  
        break;  
    }  
}  
else  
{  
    Console.WriteLine("Invalid Operator");  
}  
}  
}  
}
```

Output:-

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Output

Clear


```
mono /tmp/ecpSxNYscq.exe
Enter the operator:
+
Enter the first operand:
12
Enter the second operand:
10
Result of 12 + 10 is 22
Enter the operator:
/
Enter the first operand:
11
Enter the second operand:
2
Result of 11 / 2 is 5
Remainder: 1
Enter the operator:
&
```



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3.code for class game



```
using System;
```

```
class Game
```

```
{
```

```
    public string Name { get; set; }
```

```
    public int MaxPlayers { get; set; }
```

```
    public Game(string name, int maxPlayers)
```

```
    {
```

```
        Name = name;
```

```
        MaxPlayers = maxPlayers;
```

```
    }
```

```
}
```

```
class GameWithTimeLimit : Game
```

```
{
```

```
    public int TimeLimitMinutes { get; set; }
```

```
    public GameWithTimeLimit(string name, int maxPlayers,  
int timeLimitMinutes) : base(name, maxPlayers)
```

```
    {
```

```
        TimeLimitMinutes = timeLimitMinutes;
```

```

    }
}

class Program
{
    static void Main(string[] args)
    {
        Console.Write("Enter a game: ");
        string gameName = Console.ReadLine();

        Console.Write("Enter the maximum number of players:
");
        int maxPlayers = int.Parse(Console.ReadLine());

        Game game1 = new Game(gameName, maxPlayers);

        Console.Write("Enter a game that has time limit: ");
        string gameName2 = Console.ReadLine();

        Console.Write("Enter the maximum number of players:
");
        int maxPlayers2 = int.Parse(Console.ReadLine());
    }
}

```

```
Console.Write("Enter the time limit in minutes: ");
```

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

```
GameWithTimeLimit game2 = new  
GameWithTimeLimit(gameName2, maxPlayers2, timeLimit);
```

```
Console.WriteLine($"Maximum number of players for  
{game1.Name} is {game1.MaxPlayers}");
```

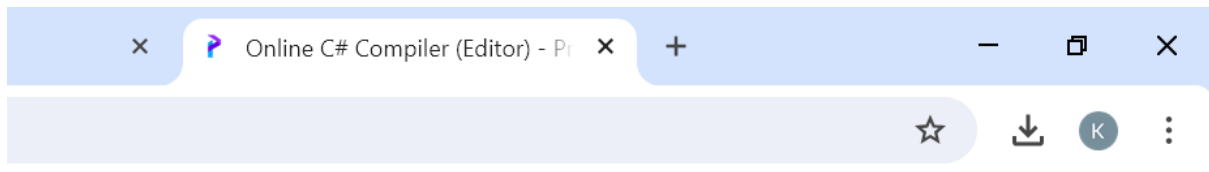
```
Console.WriteLine($"Maximum number of players for  
{game2.Name} is {game2.MaxPlayers}");
```

```
Console.WriteLine($"Time Limit for {game2.Name} is  
{game2.TimeLimitMinutes} minutes");
```

```
}
```

```
}
```

Output:-



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## Output

[Clear](#)

```
mono /tmp/aKuYu2KwtW.exe
Enter a game: cricket
Enter the maximum number of players: 11
Enter a game that has time limit: football
Enter the maximum number of players: 11
Enter the time limit in minutes: 90
Maximum number of players for cricket is 11
Maximum number of players for football is 11
Time Limit for football is 90 minutes

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

