1.ACCOUNT DETAILS

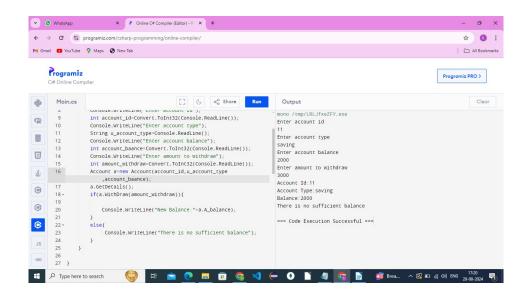
CODE:

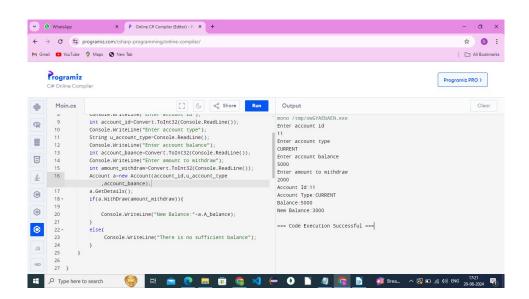
```
using System;
public class Program
  public static void Main(string[] args)
    Console.WriteLine("Enter account id");
    int account_id=Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter account type");
    String u_account_type=Console.ReadLine();
    Console.WriteLine("Enter account balance");
    int account_baance=Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter amount to withdraw");
    int amount_withdraw=Convert.ToInt32(Console.ReadLine());
    Account a=new Account(account_id,u_account_type,account_baance);
    a.GetDetails();
    if(a.WithDraw(amount_withdraw)){
       Console.WriteLine("New Balance:"+a.A_balance);
    }
    else{
       Console.WriteLine("There is no sufficient balance");
  }
}
public class Account{
  int id;
  string accountType;
  double balance:
  public int A_id{
    get{
       return id;
    }
    set{
       id=value;
    }
  }
  public string A_accountType{
    get{
       return accountType;
```

```
set{
    accountType=value;
  }
}
public double A_balance{
  get{
    return balance;
  set{
    balance=value;
  }
}
public Account(int id,string accountType,double balance){
  this.id=id;
  this.accountType=accountType;
  this.balance=balance;
}
public bool WithDraw(double amount){
  if(balance<amount){</pre>
    return false;
  else{
    balance=balance-amount;
    return true;
  }
}
public string GetDetails(){
  Console.WriteLine("Account Id:"+id);
  Console.WriteLine("Account Type:"+accountType);
  Console.WriteLine("Balance:"+balance);
  return null;
}
```

}

OUTPUT:





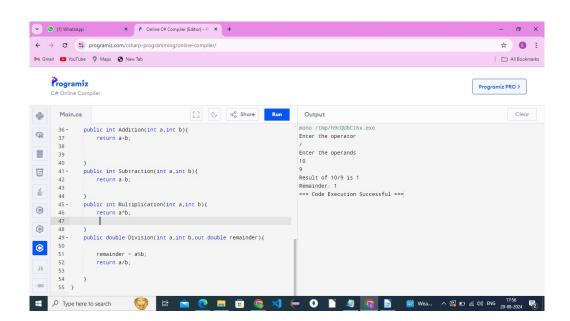
2. CALCULATOR PROGRAM

CODE:

```
using System;
public class Program
  public static void Main(string[] args)
    Console.WriteLine("Enter the operator");
    string input=Console.ReadLine();
    Console.WriteLine("Enter the operands");
    int a=Convert.ToInt32(Console.ReadLine());
    int b=Convert.ToInt32(Console.ReadLine());
    Calculator c=new Calculator();
    if(input.Equals("+")){
       Console.WriteLine("Result of "+a+"+"+b+" is "+ c.Addition(a,b));
    else if(input.Equals("-")){
       Console.WriteLine("Result of "+a+"-"+b+" is "+ c.Subtraction(a,b));
    else if(input.Equals("*")){
       Console.WriteLine("Result of "+a+"*"+b+" is "+ c.Multiplication(a,b));
    else if(input.Equals("/")){
       double d;
        Console.WriteLine("Result of "+a+"/"+b+" is "+ c.Division(a,b,out d));
      Console.Write("Remainder: "+d);
    }
    else{
       Console.WriteLine("Invalid Operator");
  }
}
public class Calculator{
  public int Addition(int a,int b){
    return a+b;
  public int Subtraction(int a,int b){
    return a-b;
  public int Multiplication(int a,int b){
```

```
return a*b;
}
public double Division(int a,int b,out double remainder){
   remainder = a%b;
   return a/b;
}
```

OUTPUT:



3. Class Program

CODE:

```
using System;
public class Program
  public static void Main(string[] args)
    Console.WriteLine("Enter a game");
    String game_name=Console.ReadLine();
    Console.WriteLine("Enter the maximum number of players");
    int no_of_players=Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter a game that has time limit");
    String time limit=Console.ReadLine();
    Console.WriteLine("Enter the maximum number of players");
    int max_of_players_time=Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter the time limit in minutes");
    int time_minit=Convert.ToInt32(Console.ReadLine());
    Game g1=new Game(game_name,no_of_players);
    GameWithTimeLimit g=new
GameWithTimeLimit(time_limit,max_of_players_time,time_minit);
    Console.WriteLine(g1);
    Console.WriteLine(g);
  }
}
public class Game{
  public string Name{set; get;}
  public int MaxNumPlayers{set; get;}
  public Game(string Name,int MaxNumPlayers){
    this.Name=Name;
    this.MaxNumPlayers=MaxNumPlayers;
  public override string ToString(){
    return "Maximum number of players for "+Name+" is "+MaxNumPlayers;
  }
}
public class GameWithTimeLimit : Game{
  public int TimeLimit{set; get;}
  public GameWithTimeLimit(string Name,int MaxNumPlayers,int
TimeLimit):base(Name,MaxNumPlayers){
    this.TimeLimit=TimeLimit;
  public override string ToString(){
    return "Maximum number of players for "+Name+" is "+MaxNumPlayers+"\nTime
```

```
Limit for Football is "+TimeLimit+" minutes";
    }
}
```

OUTPUT:

