**C# Assignment**

1. WAP – To check for sum,prod,sub,div – get 2 numbers from the user and use it for displaying theresult. Use if to check for numbers above 0 – Use float, decimal.single, int values.
2. WAP to check the Boolean value conditions with different combinations and using output formatting
3. Update the Calculator to include the Switch case to get the arithmetic choice from the user.
4. Wap to accept user's choice to check balance, withdraw or deposit / change pin- if the user selects check balance, display the default cash value 1000Rs; for withdraw, deduct the balance and show the total balance; for deposit, add the balance and show the total amount. Include the pin of the user to be validated.

***Use Exception – try,catch& finally blocks with throw – custom exception.***

1. WAP to accept a string and do the foll:

->Reverse the string

->Check if its palindrome

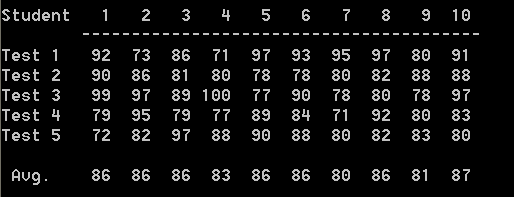
->Disp the total number of characters in the string

-> Convert to lower and upper case

-> remove the spaces in the string

1. ***Create a program to book a hotel – accept check in and checkout date – calculate the receipt for the user with total number of days(nights& days), charges for the booking – Mon-thurs(6000/- per day) /Fri-sun(8000/day).If the Christmas eve/Christmas or newyear eve/newyear – additional tariff for food & stay. Print also the day they are checking out with tax gst.***
2. wap to create array which stores 5 Movie details and display the movie in the reverse order, retrieve 4th element, delete 3rd movie. Use foreach to access the movie names.
3. Use Movie details to create an enum of Movie actors and struct of movie details with functions – displaymovie() and reviewmovie(). Find the high rated movie of the year.
4. Create a student details array with Names and marks for five subjects - get the marks for each student from the user and find the average and display the grade accordingly - if the average is < 50 , grade fail; avg>50 & <70 ,grade pass-first class;avg> 70 & <80 grade: distinction; avg >80 grade:Excellent; Rank the students based on their average.

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1. Create a Movie class with movie name, star, release date, id, review(), accept() disp functions. Use property accessors. Derive from Movie and create child classes – Hollywood, Indian Movies -> Bollywood, Kollywood,Tollywood..etc. Implement multi-level inheritance, constructors, properties, access specifiers, overloaded, functions/constructors- *return types, virtual, override*
2. Use the Movie project to create abstract class of Movie, and inherit with other Bollywood, Hollywood etc classes. Create Interfaces like Moviedb, moviereview that need to be inherited. Try sealed, static abstract, classes & methods.
3. Create Movie namespaces, nested and use fully qualified names to access and also use ‘using’ for shortcuts.
4. Create Movie partial classes and use partial methods to implement functionality
5. Operator overloading - ,\*,/,>,<
6. Use the movie class to create an array of 6 movie objects and implement indexer to iterate through different objects and set values for movie names. Use overloaded indexer to change the movie names of the first, middle & last movies.
7. Use the concept of Collections to store movie names in array list movie stars in hash table, movie genres in sorted list, movie rating in stacks, movie collection in queue.
8. ArrayList of movie with all the records -> movie name, star, genre, review, collection. Get input of new movie record from user and update it. Delete record based on movie rating. Update the record based on movie name.
9. Use Generics, Iterators, Delegates to the movie details project. Create a generic movie class, iterate the moviestar names and use delegates to call the functions – display & review.