**C# Console – Proj Assignments**

1. WAP to accept the student details – Name, grade, five subject marks and display the student info with average.
2. 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.
3. Update the Calculator to include the Switch case/loop to get the arithmetic choice from the user. Exit the calculator only when user wants to quit.
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 2 strings and do the foll:

->Compare if they are equal

->Reverse the string

->Check if its palindrome

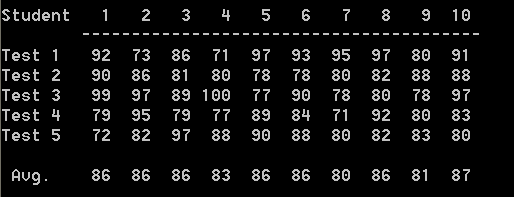
-> Count the number of vowels & consonants in a given string

-> Convert to lower and upper case

-> Remove the spaces in the string

1. 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.
2. 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.

Raj Ram Rada Shyam Lavan



Grade First-class Pass Distinction Fail

Rank I 2 4 5 3

Math

Science

Computer

English

Hindi

1. In a movie theatre, there are 4 counters for each movie released, selling tickets. Get the no of movie goers waiting in each of the queue to buy the tickets. Find out the total number of ticket buyers, find out which movie has more demand and which has the least.
2. 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.
3. Operator overloading - ,\*,/,>,<
4. Create abstract Person class which implements from IPerson interface, and has name, id, ,city- fields, displayInfo(), acceptInfo() functions. Use property accessors. Derive from Person – Customer & Buyer classes and Implement multi-level inheritance, Multiple Interface inheritance, constructors, properties, access specifiers, overload, functions/constructors- *return types, virtual, override.*
5. Create Movie namespaces, nested and use fully qualified names to access and also use ‘using’ for shortcuts.
6. 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. Create Movie partial classes and use partial methods to implement functionality
7. 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. Use named iterators to get the ratings of the movie.
8. Implement exception handling &use debugging tools & windows.

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 B.O collection in queue.

1. 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.
2. 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.
3. Create an app for a chemical experiment reporting – you can input the experiment name, chemicals used, process involved , temperature. If the temperature is above 100C, sound an alarm and notify the scientist – that temp exceeded. Also if temp is below 10C, sound an alarm ,notify that experiment has failed. Else – 10-100C , then proceed to the next level. Use event,delegate & functions to implement.