

Programming fundamental Project list

1. GUI based calculator:

Create Calculator using windows form with all functionalities of a modern calculator.

2. GUI based Converter:

Create a converter using windows form with full functional conversions of temperature, weight, distance, currency and volume.

3. GUI Notepad:

Create a notepad with all functions WINDOWS default notepad. I-e file creating, saving, editing and word search/replace etc.

4. (Flat file) Point of sale:

Console based point of sale system using flat file for saving and editing records.

5. GUI based Point of sale:

Create GUI based point of sale system using flat file for saving and editing records.

6. GUI based “my dairy”:

Create GUI based interface for day to day record as a digital diary (with flat file saving).

7. GUI based tic tac toe:

Create Tic tac toe game using windows form.

8. GUI Tiles:

Create GUI based tiles/image puzzle game, pieces of puzzle must be shift-able to complete puzzle.(score should be stored as per number of moves.)

9. GUI based “mystickies”:

Create sticky note using flat files with windows form and paste files with exposure on desktop.

10. GUI based resource monitor:

Create a GUI based resource monitor with access to system resources like battery, memory usage, brightness etc with real time monitoring.

11. GUI based daily expenses:

Create a record using flat files for saving the log of daily/monthly and yearly expenses.

12. GUI based time table:

Create a GUI interface to get (timings+class+venue) from the user and create a single file with time table of user.

13. GUI based Zakat+Tax calculator:

Create a GUI calculator for zakat and tax (using formulae of Islamic zakat and Pakistani law tax laws respectively).

14. GUI “my notes”:

Create GUI based notes creation system with the log daily lectures with images etc.

15. Palindrome checker:

Create an application for checking palindromes in a text file and create a new file consisting resultants only.

16. Prime generator/finder:

Create an application GUI/Console which finds primes from a list of random numbers. Also generate random/sequence random numbers.

17. 2048 GUI game:

Create GUI based 2048 game. (<http://2048game.com/>)

18. Digital dictionary:

Create a GUI based word dictionary getting words as input and return meaning. (use flat files to populate a dictionary).

19. GUI word guessing:

Create a GUI based word guessing game.

20. GUI based typing tutor:

Create a typing tutor with levels of training.

21. Number to text/speech convertor:

Create a little application which would take a number as input and give it in text as output. Also reads the number in English (e-g input:243, output: two hundred and forty three).

22. FAST NUCES Point Management System

23. Chatbot

Chatbot is a simple bot written in C. The base algorithm is that our conversation is based on keywords. The bot searches for this keyword and presents a suitable response on the basis of that keyword.

24. Predictive Programming (Coding)

Predictive coding is the use of keyword search, filtering and sampling to automate portions of an E-discovery document review. The goal of predictive coding is to reduce the number of irrelevant and non-responsive documents that need to be reviewed manually.

25. Supermarket Management System

A supermarket management system is an application that should include all the day-to-day operations that take place in the supermarket. Some of these operations are listed below:

- Customer order information
- Checkout process
- Notifying the person whenever one starts the application of an item that is about to be finished in the store
- Report generation of sales on request
- Issuance of a number to some valued customers who have spent a certain amount on shopping

It is not necessary to add all these features. Moreover, students can add features of their own choice as well.

26. Advanced Calculator

This application includes all the basic operations that a calculator can perform but it should also include some other operations which can make it different from the normal calculator application we have on our phones. These operations can be matrix addition, multiplication, transposition or it can also include some other advanced tasks that can be taken from students calculus subject.

27. Order Reservation Application

When a person goes to a restaurant they have to wait for a while until their order is ready. There can be an application that will reserve orders for customers in a way that customers can tell the restaurant their order, time of arrival, and some other details related to their order. These details are all saved into the system and the customer's order is reserved and served sooner because it was already in the system. This application can save valuable time of customers and also allow hotel management to serve more and more customers.

28. Budget Tracker

This application will keep the record of all the information related to money spent by a person to help them get better control over their home budget.

Some of the features it may include are:

- Saving customer basic information (customer earning and its source)
- Recording information related to when and where user spent money
- Taxes tracking
- Report generation at the end of the month
- Notifying user when a certain amount has been spend

It is not necessary to add all these features. Moreover, students can add features of their own choice as well.

29. Tourism Management System

This system will allow users to browse different tourist packages to different tourist locations. The tourist package will provide information to users on the different facilities that will be provided throughout the trip. Users will have the option to select their desired facilities and their cost will be calculated based on their selection.

30. Online Election System

The system will allow users to vote for their preferred candidate. Total votes will be calculated to show the leading candidate. Users can vote for only one candidate at a time.

31. Library Management System

The system will contain the details about all the books and the quantities in which they are available to be borrowed. It will record the name of the student with the date of issue and author of the book. It also provides a facility to allocate the no. of the books that students can issue at a time.

32. Office Management System

An automated employee record management will record the progress of the employee. It will also track payments, leaves and submissions of tasks assigned to employees. Employees can also be categorized based on their job roles.

33. Medical Store Management System

The system will maintain information about the records of customers, medicine and the suppliers. It will allow users to insert, delete and modify the records of customers, medicine and the suppliers which is added into the stock.