

Softwares



اللَّهُمَّ ارْزُقْنِي عِلْمًا نَافِعًا وَاسِعًا عَمِيقًا

اللَّهُمَّ ارْزُقْنِي رِزْقًا وَاسِعًا حَلَالًا طَيِّبًا
مُبَارَكًا مِنْ عِنْدِكَ

What is a Computer Science

Computer Science teaches us how to **develop fast, reliable, secure, intelligent softwares** that facilitate humans to complete their tasks (includes work, entertainment, learning, teaching, collaborate etc.)

What are Softwares ?

Have you ever USED any software?



|| ECAT Exam Software

Desktop Based Softwares?



Console Based Softwares?

```
Administrator: Command Prompt - uams
*****
*          University Admission Management System
*****
Main Menu >
-----
Select one of the following options number...
1. Add New Student Record
2. View all Records
3. Print the Record in Merit Order
4. Generate Merit List
5. Program Seat Management
6. Exit
Your Option..
```

Web Application: Online Shopping

SAVE MORE ON APP DARAZ AFFILIATE PROGRAM SELL ON DARAZ CUSTOMER CARE TRACK MY ORDER LOGIN SIGNUP

daraz

Search in Daraz

DARAZ APP DOWNLOAD THE DARAZ APP

Electronic Devices
Electronic Accessories
TV & Home Appliances
Health & Beauty
Babies & Toys
Groceries & Pets
Home & Lifestyle
Women's Fashion
Men's Fashion
Watches, Bags & Jewelry
Sports & Outdoor
Automotive & Motorbike

WINTER COLLECTION 2020
Refresh Your Wardrobe

SHOP NOW >

Flash Sale

On Sale Now Ending in 11 : 22 : 46

UHT Plain Milk
Pack of 12 Dayfresh UHT Milk 1 Ltr
Rs.1,575

Bluetooth
S530 Mini Bluetooth Wireless Stereo...
Rs.329

Bluetooth function
I7 mini Single Wireless Bluetooth Earphone + Fre...
Rs.399

EASEZAP
Bluetooth Mini Wireless Stereo...
Rs.280

GiftNext
Customised Keychain with Your Own Picture - Double...
Rs.127

SAMSUNG
USB 3.1 Generation BAR Plus Metal USB 3.1 Flash...
32 GB
Rs. 549

SHOP MORE

darazMall **dMart** **Fashion & Lifestyle** **Global Collection** **Digital Sahulat**

Ecommerce Websites

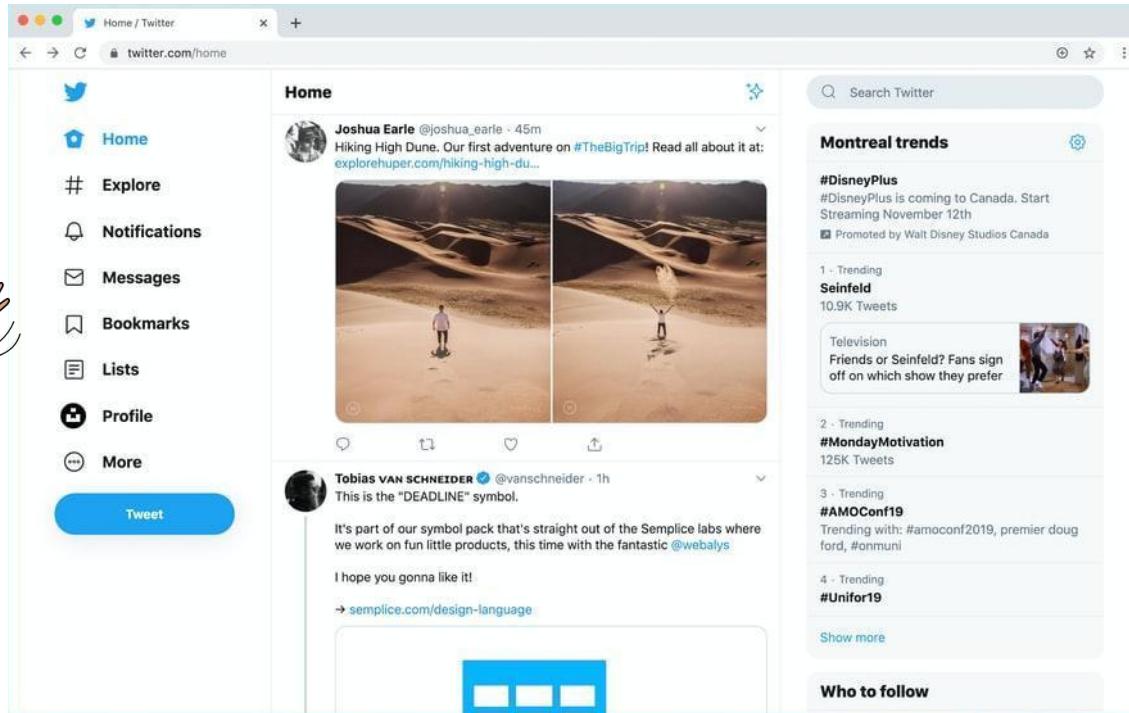
Different ecommerce websites like **Amazon**, **Ebay** and **Flipcart** are also product of programming



The screenshot shows the Flipkart homepage with a blue header bar. The header includes the Flipkart logo, a search bar with placeholder text 'Search for products, brands and more', a magnifying glass icon, a 'Login' button, a 'More' dropdown, and a 'Cart' icon. Below the header is a navigation menu with categories: Electronics, TVs & Appliances, Men, Women, Baby & Kids, Home & Furniture, Sports, Books & More, Flights, and Offer Zone. A prominent banner at the top features a yellow 'SALE IS LIVE' graphic with a clock icon, followed by icons for Mobiles, Electronics, Fashion, TVs & Appliances, Beauty, Toys & More, Furniture, and Home Essentials. Below the banner, another section highlights 'Work From Home Furniture From ₹599' with an image of a desk setup. A smaller 'BIG SAVING DAYS' banner for the period 18th - 22nd Dec is visible on the left. At the bottom, there's an 'SBI card' advertisement offering a 10% instant discount on SBI Credit Card & EMI Transactions.



Twitter



A screenshot of the Twitter Home page. On the left, a sidebar menu includes Home, Explore, Notifications, Messages, Bookmarks, Lists, Profile, and More. A large blue 'Tweet' button is at the bottom. The main content area shows a tweet from Joshua Earle (@joshua_earle) about hiking a high dune, accompanied by two images of a person standing on a sand dune. Below it is a tweet from Tobias VAN SCHNEIDER (@vanschneider) about a symbol pack. To the right, a 'Montreal trends' section lists '#DisneyPlus' as the top trend, followed by '#Seinfeld', '#MondayMotivation', '#AMOConf19', and '#Unifor19'. A 'Who to follow' section is at the bottom.

Home

Joshua Earle @joshua_earle · 45m
Hiking High Dune. Our first adventure on [#TheBigTrip!](#) Read all about it at: explorehuper.com/hiking-high-du...



Tobias VAN SCHNEIDER @vanschneider · 1h
This is the "DEADLINE" symbol.
It's part of our symbol pack that's straight out of the Semplice labs where we work on fun little products, this time with the fantastic @webalys

I hope you gonna like it!
semplice.com/design-language

Montreal trends

#DisneyPlus
#DisneyPlus is coming to Canada. Start Streaming November 12th
Promoted by Walt Disney Studios Canada

1 - Trending
#Seinfeld
10.9K Tweets

Television
Friends or Seinfeld? Fans sign off on which show they prefer

2 - Trending
#MondayMotivation
125K Tweets

3 - Trending
#AMOConf19
Trending with: #amoconf2019, premier doug ford, #onmuni

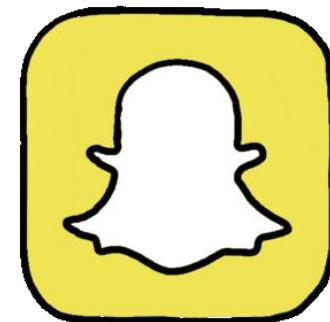
4 - Trending
#Unifor19

Show more

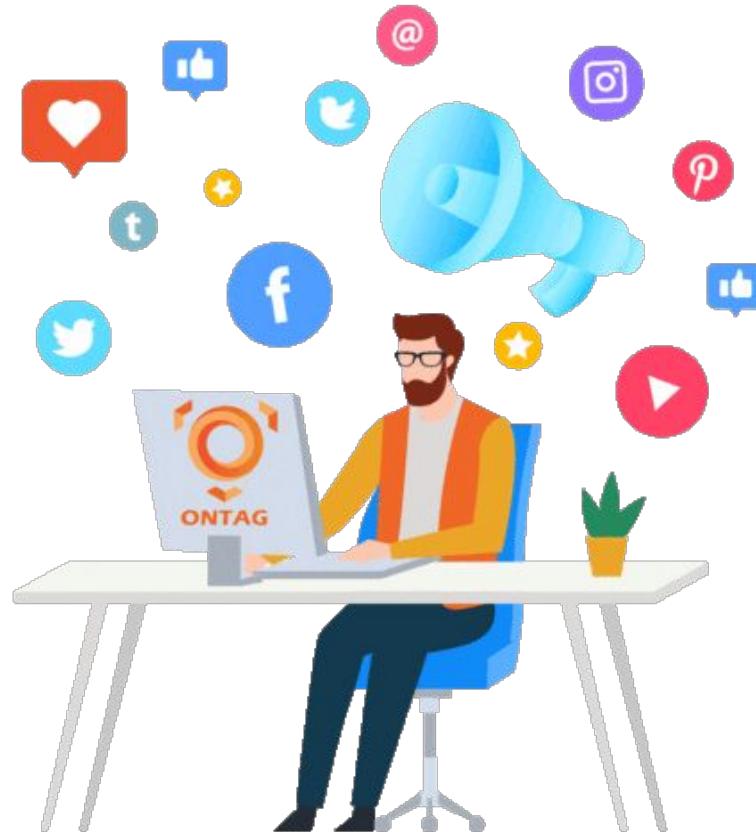
Who to follow



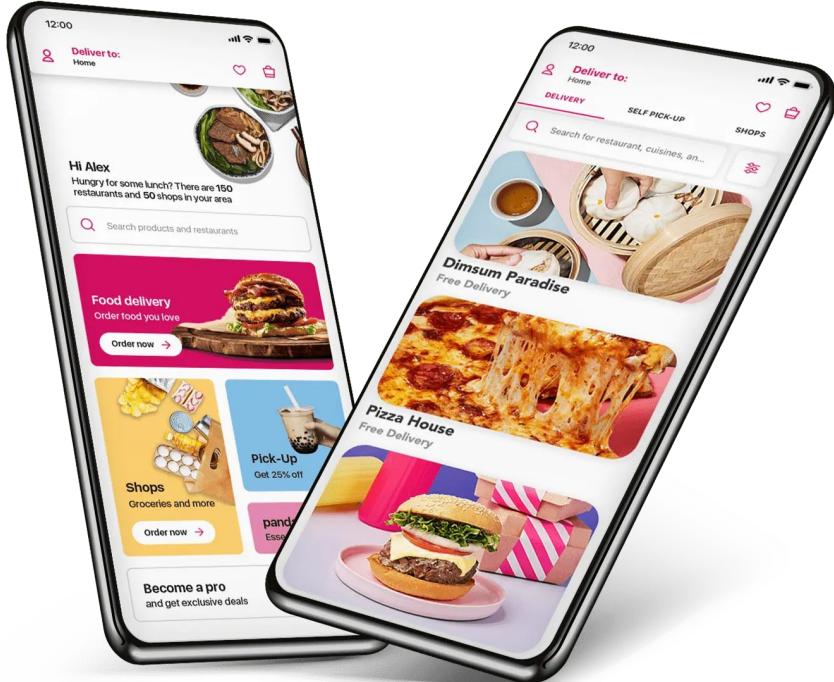
Social Networks



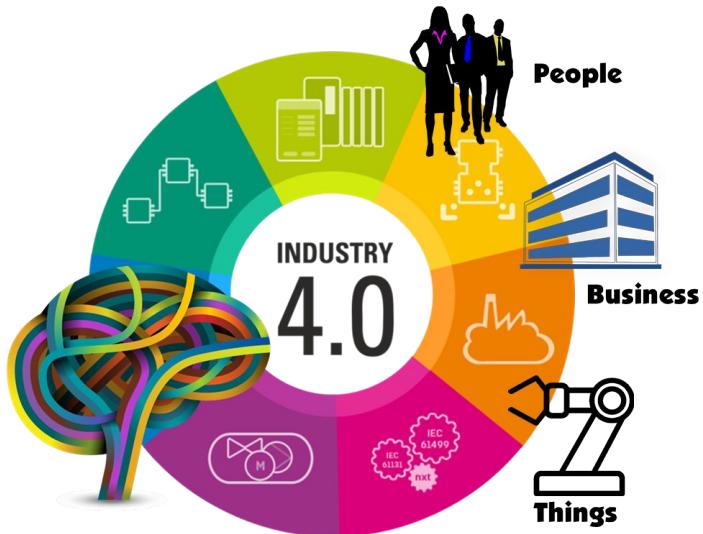
Social Networks



Mobile Apps



Business Applications



Most of you had *seen* this...



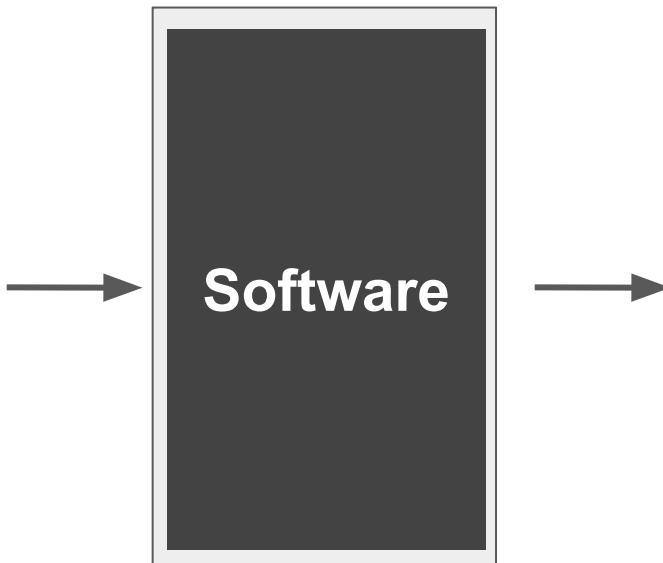
<https://digitalsynopsis.com/design/movies-before-after-green-screen-cgi/>

In Reality, it looks like this....



<https://digitalsynopsis.com/design/movies-before-after-green-screen-cgi/>

Programmers did the *Magic*



Movies and Cartoons



Games



You have Played these! Now let's Develop...



Artificial Intelligence



Cyber Security





Software that Our Students Develop After First Year

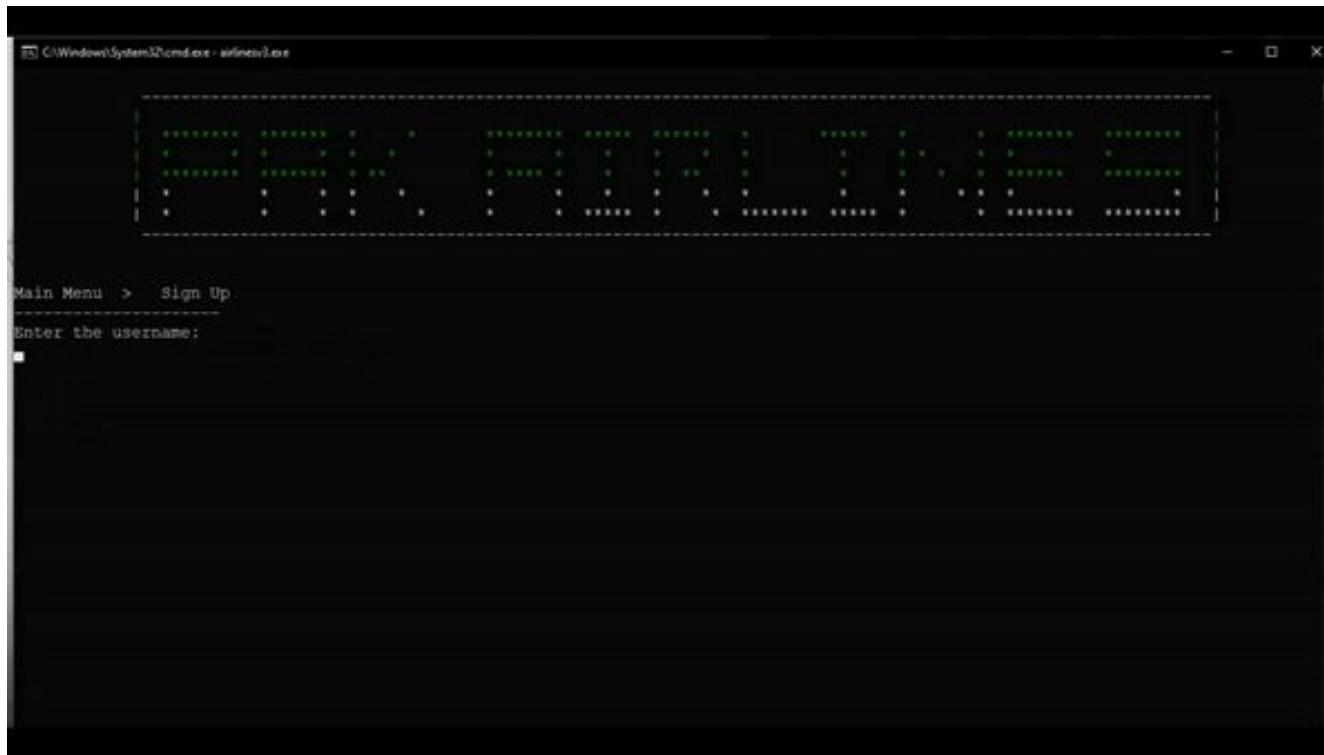


Console Based Business Applications

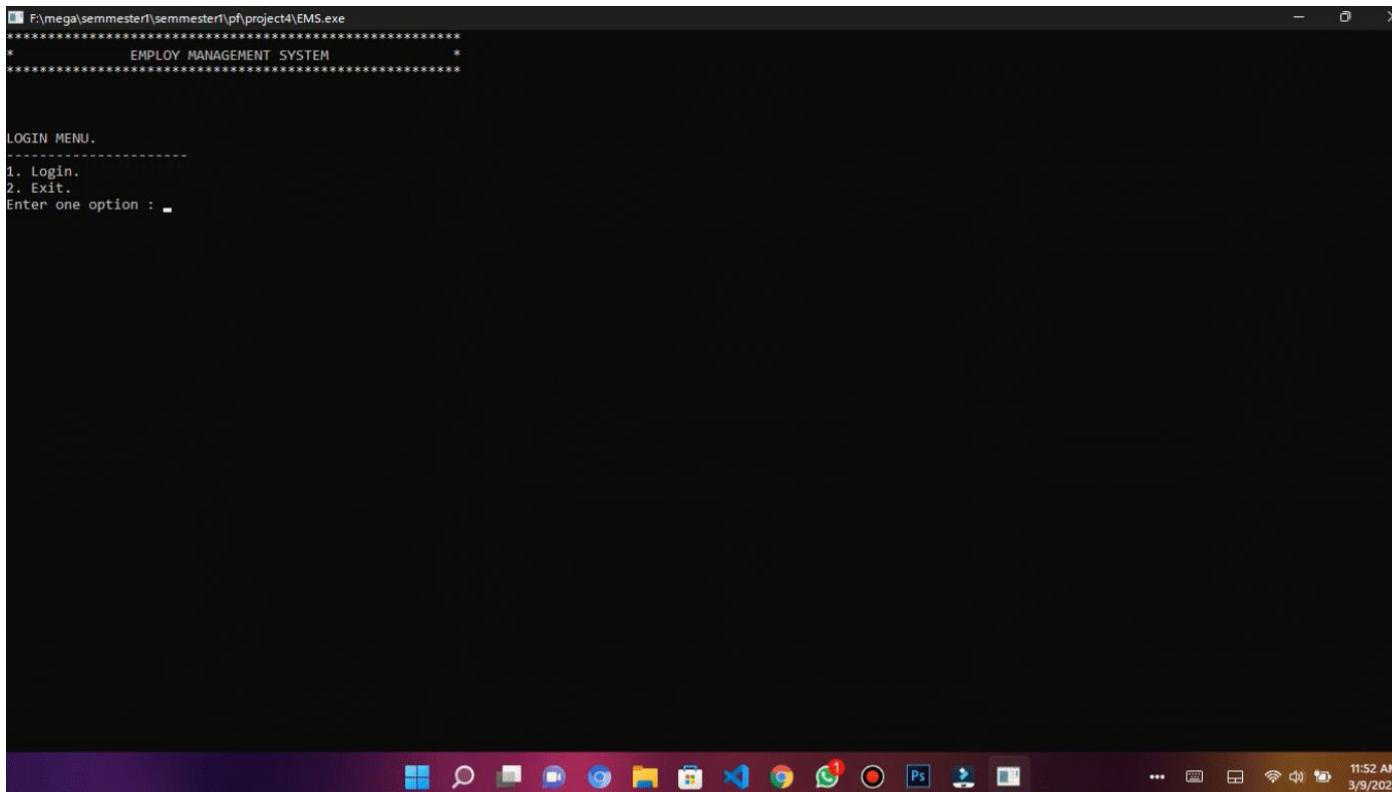
UAMS: University Admission System

```
Administrator: Command Prompt - uams
*****
*          University Admission Management System
*****
Main Menu >
-----
Select one of the following options number...
1. Add New Student Record
2. View all Records
3. Print the Record in Merit Order
4. Generate Merit List
5. Program Seat Management
6. Exit
Your Option..
```

Pakistan Airline Management System



Employees Management System



Punjab Education Foundation

```
C:\WINDOWS\System32\cmd.exe - PEF_FINAL_1.2.exe

:::::::::::::::::::::::::::::::::::  
::: PUNJAB EDUCATION FOUNDATION :::  
:::::::::::::::::::::::::::::::::::  
  
User Panel > School Administration > View Students Data  
  
STUDENT RECORDS  


---



| Student Name | Father Name | Class | ENGLISH | URDU | MATH | SCIENCE | ISLAMYIAT | TOTAL | PERCENTAGE |
|--------------|-------------|-------|---------|------|------|---------|-----------|-------|------------|
| Hamid        | Imran       | 6     | 99      | 99   | 99   | 99      | 99        | 495   | 99         |
| Hamid        | Imran       | 4     | 99      | 99   | 99   | 77      | 99        | 462   | 92.4       |
| Qaim         | Majid       | 6     | 88      | 88   | 88   | 77      | 88        | 429   | 85.8       |
| Ali          | khan        | 4     | 78      | 78   | 78   | 67      | 56        | 377   | 75.4       |
| Ahmed        | abd         | 7     | 78      | 78   | 78   | 56      | 45        | 324   | 64.8       |



> Hamid is THE BEST student of whole School.  
> His father Name is Imran.  
> His Class is 6.  
> His Marks Percentage is 99.  
> CONGRATULATION! Hamid on this GREAT acheivment.



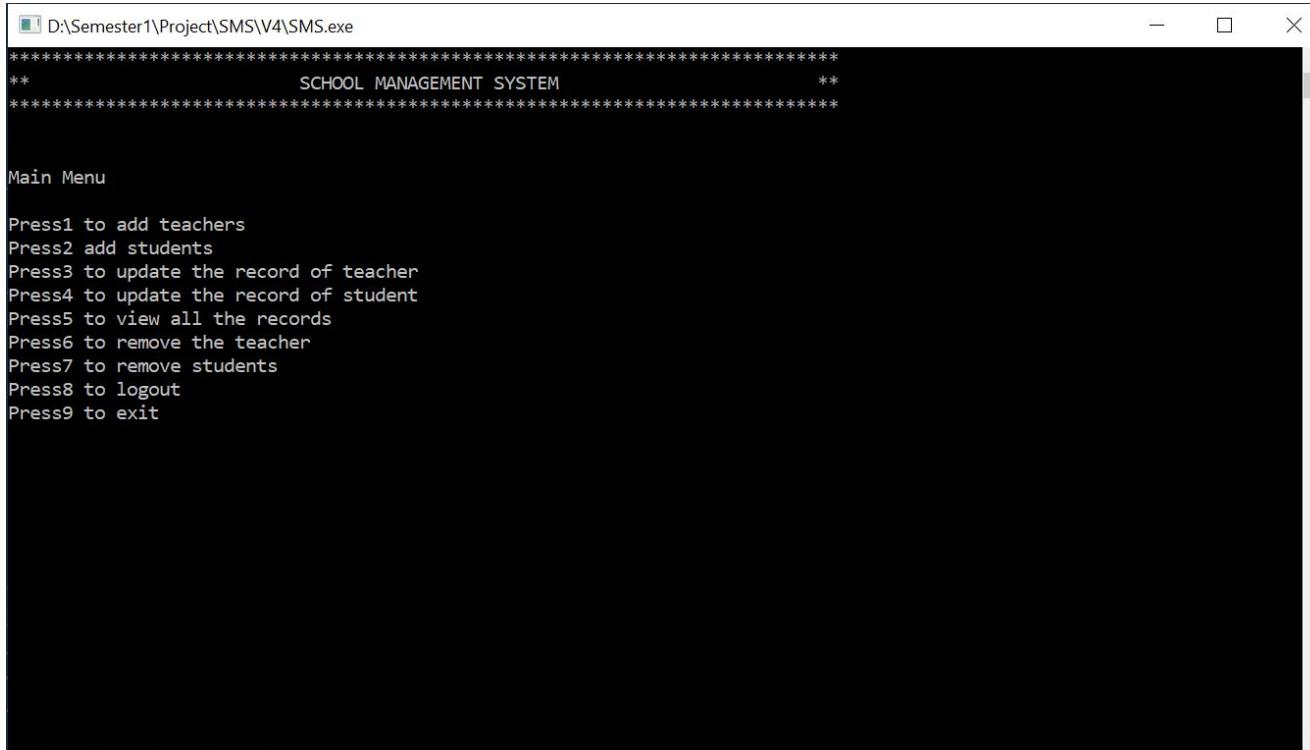
Press any key to continue...■


```

Fabrics Shop Management System

```
#####
|%| ~~~~~~|~~~~~|~~~~~|~~~~~|~~~~~|~~~~~|~~~~~| %|
|%|                      Fabrics Shop Management System | %|
|%-|-----|-----|-----|-----|-----|-----|-----| %|
#####  
~~~~~  
Welcome,Muhammad Aftab Aslam---->  
*****  
  
1. Add new Products  
2. Update Products  
3. Customer's Orders  
4. Live Order and Bill  
5. Customers Details  
6. Products Detail  
7. Total Stock Sale Details and Profits  
8. Announce Discounts  
9. Sorting/Searching  
10. Update Profile  
11. Add Other Owner(Partner)  
12. Add New Customer  
13. See Comments  
14. Exit  
  
*****  
Your Option :
```

School Management System



Inventory Management System

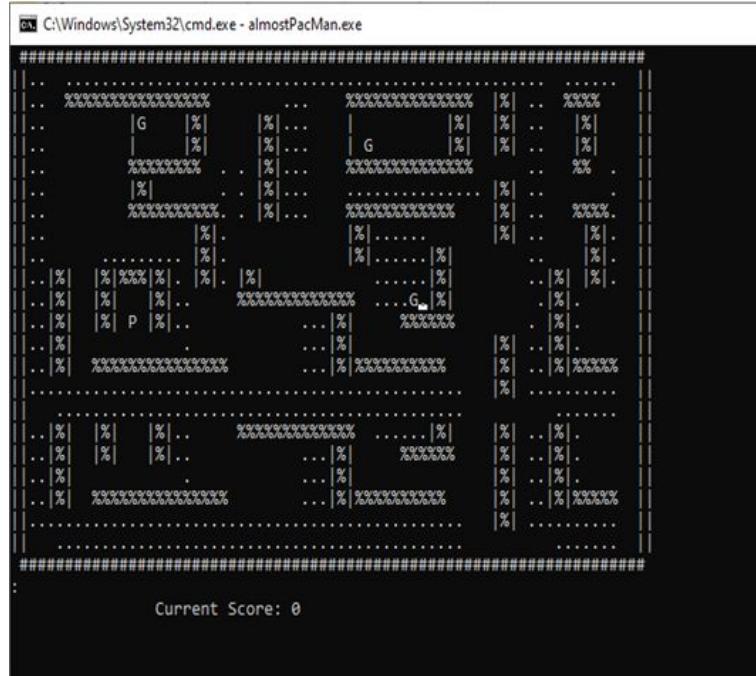
```
C:\Windows\System32\cmd.exe - IMS_Final.exe
Factory/Company name                                     Sat Feb 05 15:05:49 2022
*****
                                         INVENTORY MANAGEMENT SYSTEM
*****
Main menu>                                         (Admin)
1.Update users(workers)
2.Update products in stock
3.Search for products in stock
4.Out of stock products requests
5.Products Price Change Reports
6.Inventory usage log
7.Labor rates
8.Manufacturing cost calculator
9.Show all things in inventory
e.Exit

Enter your option: -
```

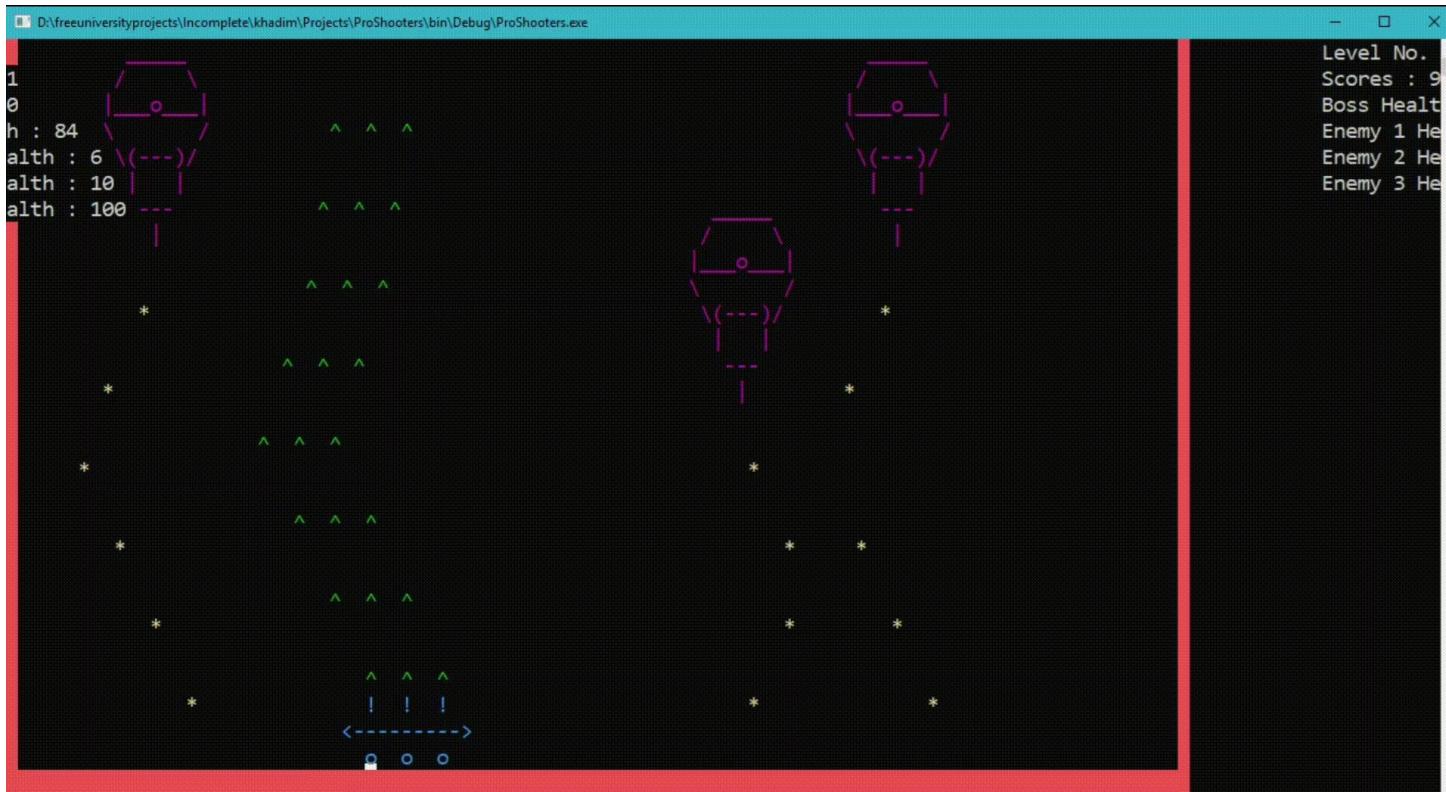
Console Based 2D Game

Pacman

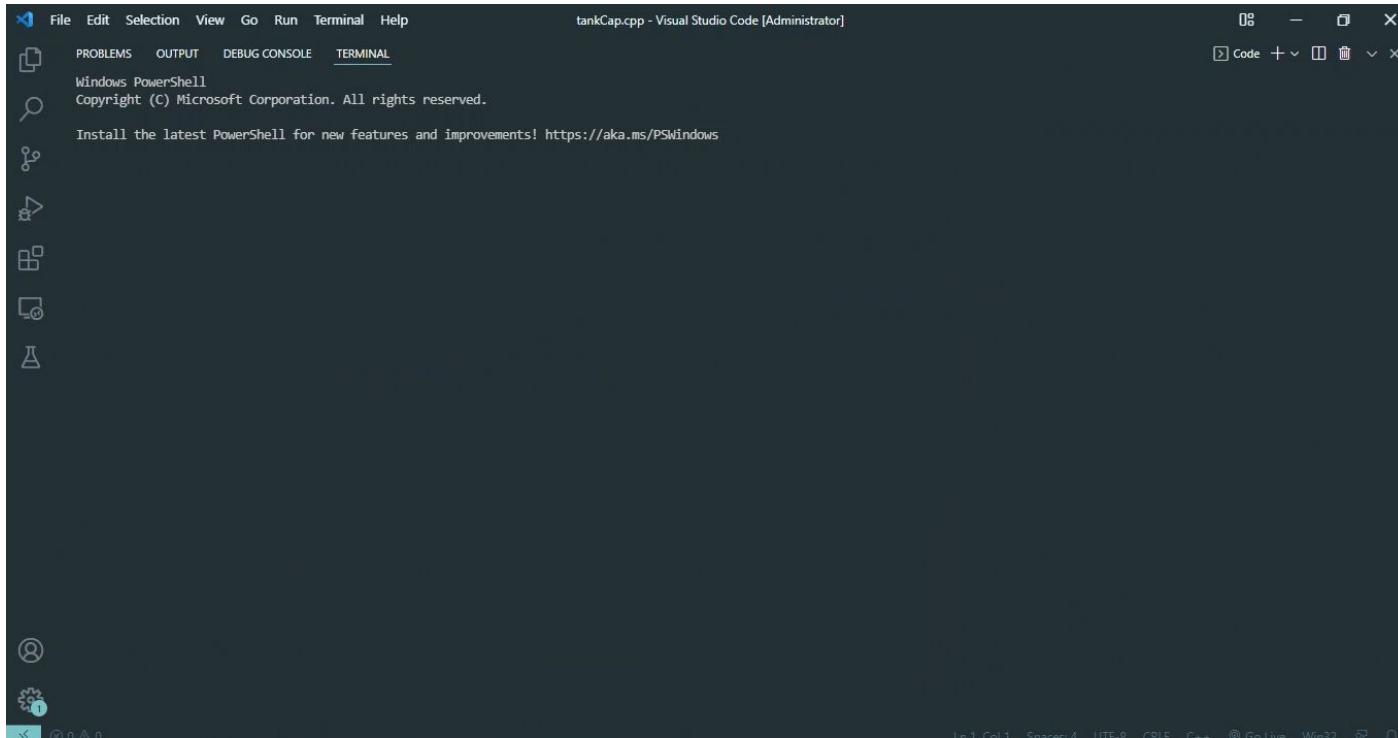
How to convert Pacman Game to Computational Problem?



Space Shooter



TankCap



Ping Pong

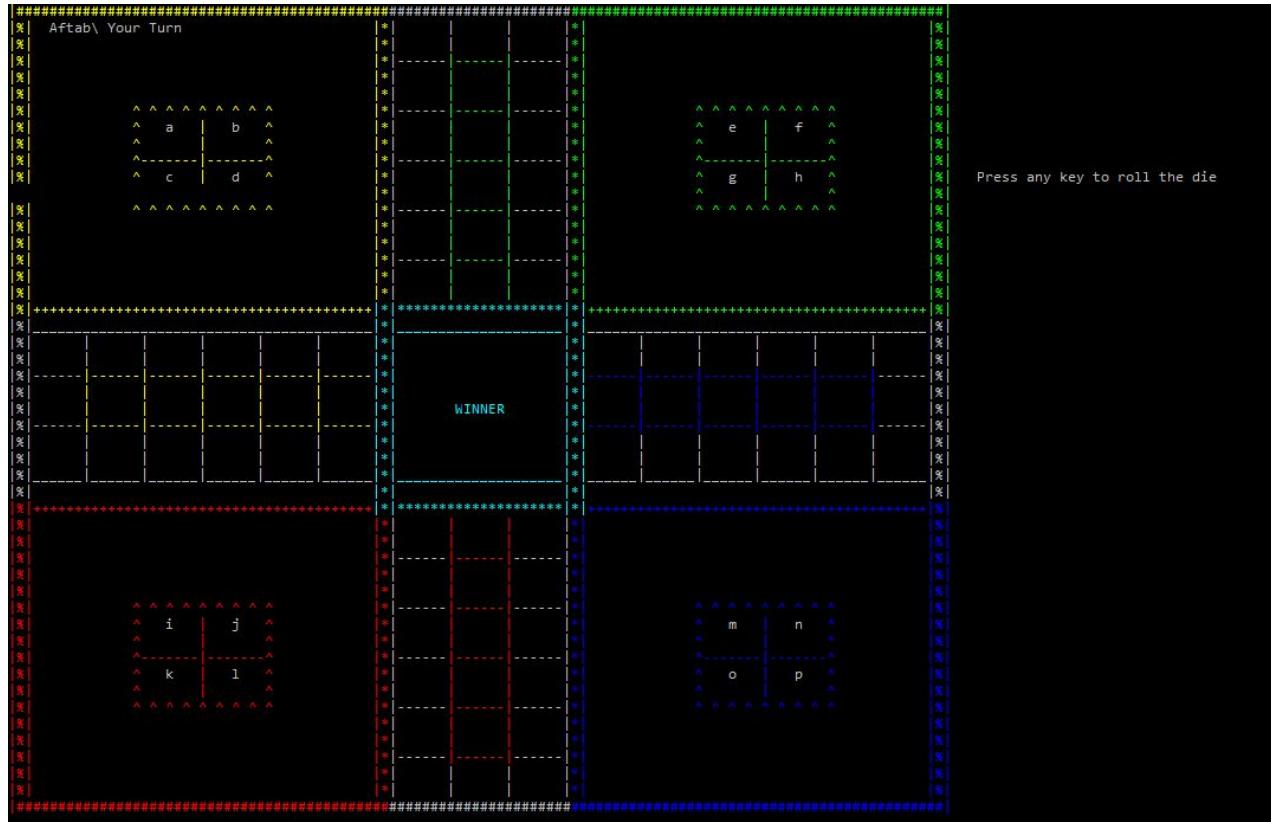


Tank Wars

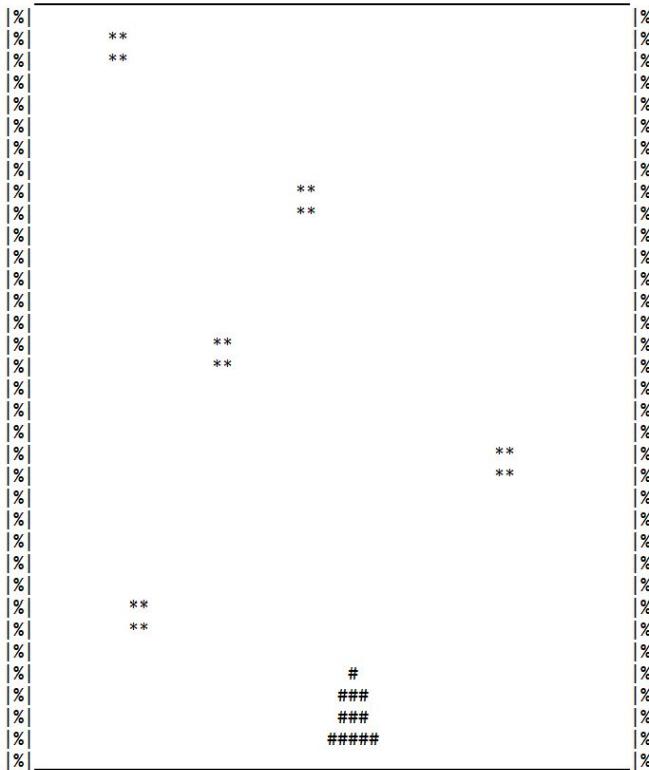
```
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#+: #++:#++: #++: #++: #++: #++: #++:  
###: ###: ###: ###: ###: #####: ###:  
  
-----  
-|||----|===== New Game  
[|||||] / 00000000000/  
| Instructions
```

Arrow keys to navigate Space key to Continue
Escape key to exit

Ludo



Car Racing Game



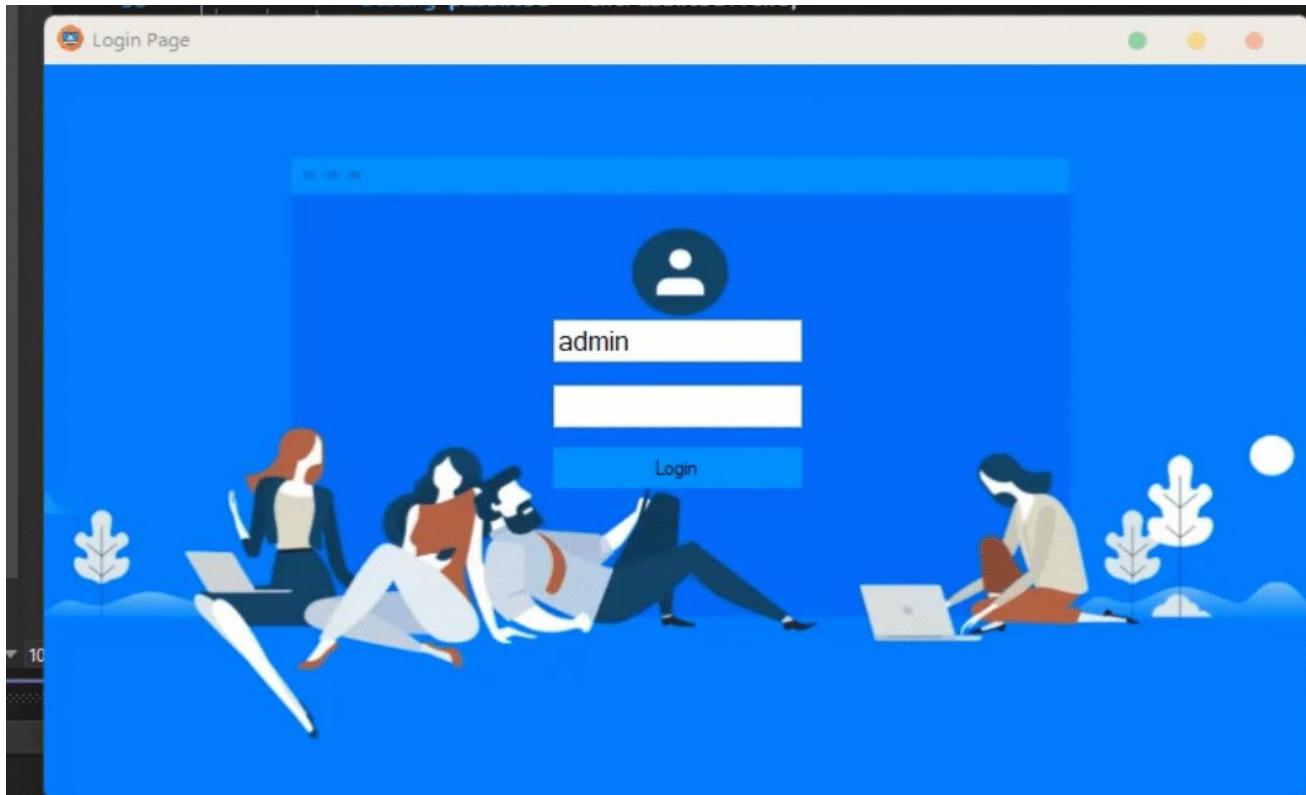
Score: 10

First Year Students Projects (Desktop Applications)

Pakistan Airline Management System



Employees Management System



Learning Management System

The screenshot shows the 'USER DASHBOARD' of the Learning Management System (LMS). On the left, a sidebar menu includes 'USER DASHBOARD' (selected), 'BOOK', 'BORROW BOOK', 'RETURN BOOK', and 'EXIT'. The main area features a 'ADD A USER' form with fields for ROLE (dropdown), NAME (text input), USERNAME (text input), and PASSWORD (text input). Below the form are buttons for 'Auto Code', '@LMS.COM', and 'ADD'. To the right is a table listing users with columns for EDIT, DELETE, Role, Name, UserName, and Password. The table data is as follows:

EDIT	DELETE	Role	Name	UserName	Password
EDIT	DELETE	ADMIN	MUHAMMAD SUBHAN	SUBHAN@LMS.COM	123456
EDIT	DELETE	ADMIN	MUHAMMAD ZAIN	ZAIN@LMS.COM	1234
EDIT	DELETE	ADMIN	HAIDER ALI	HAIDERALI@LMS.COM	123456
EDIT	DELETE	STUDENT	TEST	TEST123@LMS.COM	123456

Below the table, performance metrics are displayed: ADMIN: 3/75 %, USERS: 1/25 %, and TOTAL: 4.

Farm Management System

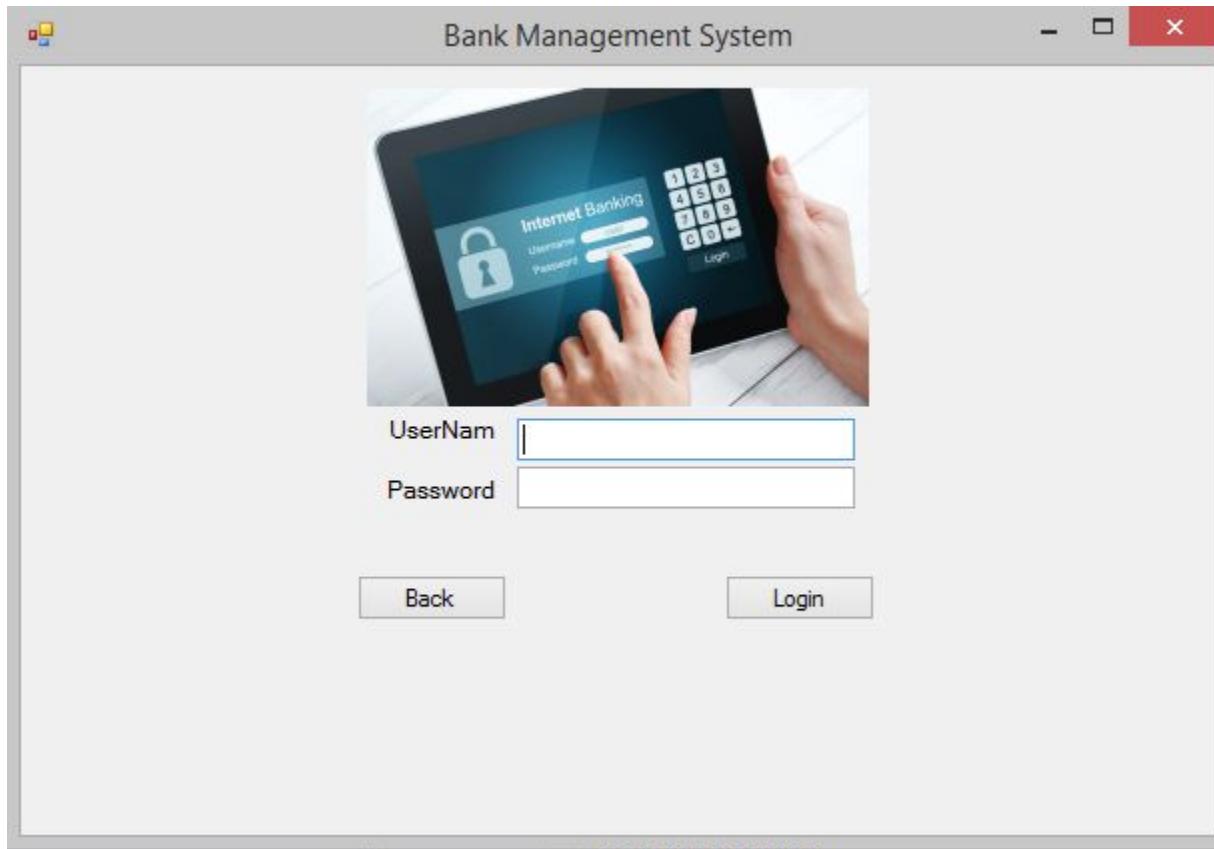


BE NATURAL FARM

	Add New User	Add New Organism	
	Update Health Of Organisms	Update Weight Of Organisms	
	Allocate Food For Organisms	Book Veterinary Appointment	
	Calculate Food Cost Of Farm	Add Eggs Produced	
	Add Milk Produced	Add Organism To Sales List	
	Calculate Total Worth Of Sales	Sort Organisms According To Increasing Weight	
	Sort Organisms According To Decreasing Weight	EXIT	

[Go Back Home](#)

Bank Management System



Shop Management System

CustomerForm

Logout Contact Us Change Account About Us ! Help

MUHAMMAD IBRAHEEM

Home Buy Products View Products Current Offers Generate Bill

Walmart Supercenter Happy Online Shopping

I am Looking For Cagatory...

Adidas Original Men's Shoes PKR 1800 PKR-3000+ 40 % off Buy

Dress Shirt Pure Cotton For Party PKR 1400 PKR-2000+ 20 % off Buy

Dress Suit Original Cotton PKR 13500 PKR-15000+ 10 % off Buy

Kurta Original Kurta Designs PKR 9000 PKR-10000+ 10 % off Buy

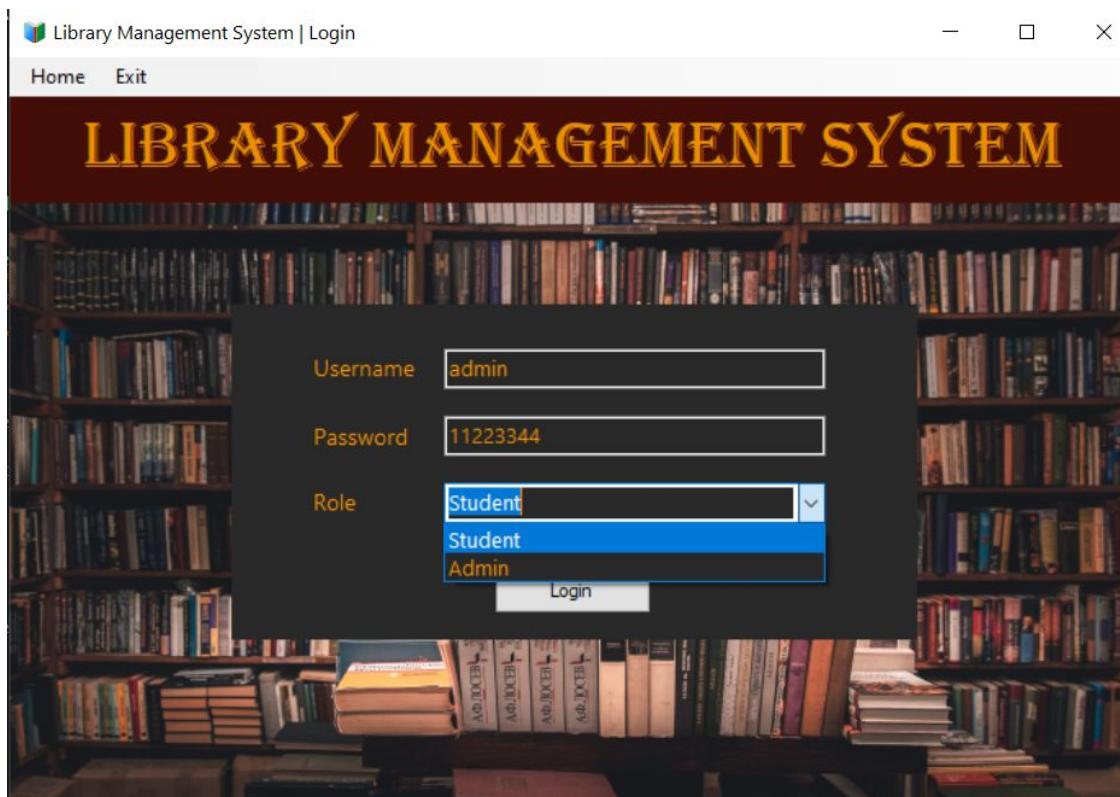
Buy

Buy

Buy

Buy

Library Management System



Inventory Management System

Admin-Update Products

Admin

- Update Users
- Update Products
- Search Products
- Requests
- Price Reports
- System Log
- Labor Rates
- Inventory

Back

UpdateProducts

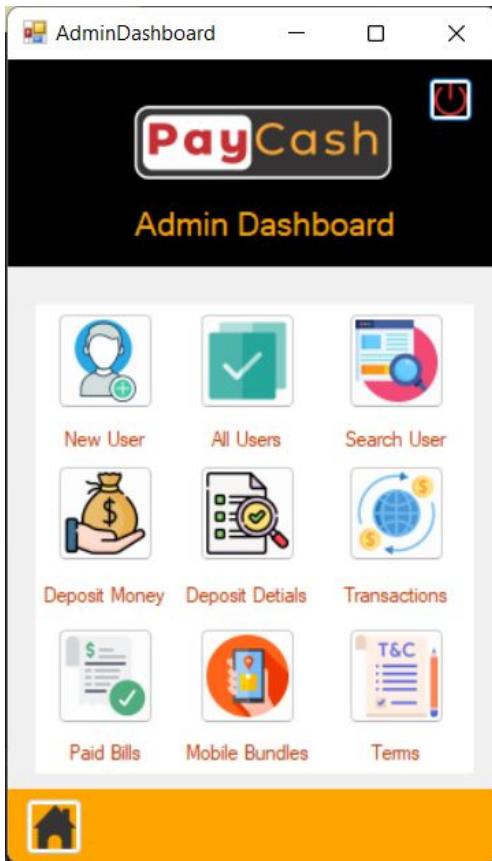
Name	Rate	Type	Qty	Edit	Delete
Leather	1200	m	1000	Edit	Delete
Cordura	1000	m	1500	Edit	Delete

Name	Rate	Type	Qty	Size	Edit
Buckles	10	a	10000	1.5	Edit
Rivets	2	a	15000	9	Edit
Dees	5	a	5000	2	Edit
Buckles	8	a	15000	1	Edit
Buckles	5	a	7500	0.75	Edit

< >

Add New Product

PayCash Application



Punjab Education Foundation

frmSchool

PUNJAB EDUCATION FOUNDATION

Add Teacher
Add Student
Add Result
Attendance Report
View Teacher Data
View Student Data
View Announcement
Search Teacher
Search Student
Exit

Add Result

Enter the Name of School : Dar e Arqam

Enter the B-Form of Student : 1234567890127

Enter Total Marks of Subject : 100

Enter the Marks of English : 89

Enter the Marks of Urdu : 67

Enter the Marks of Maths : 99

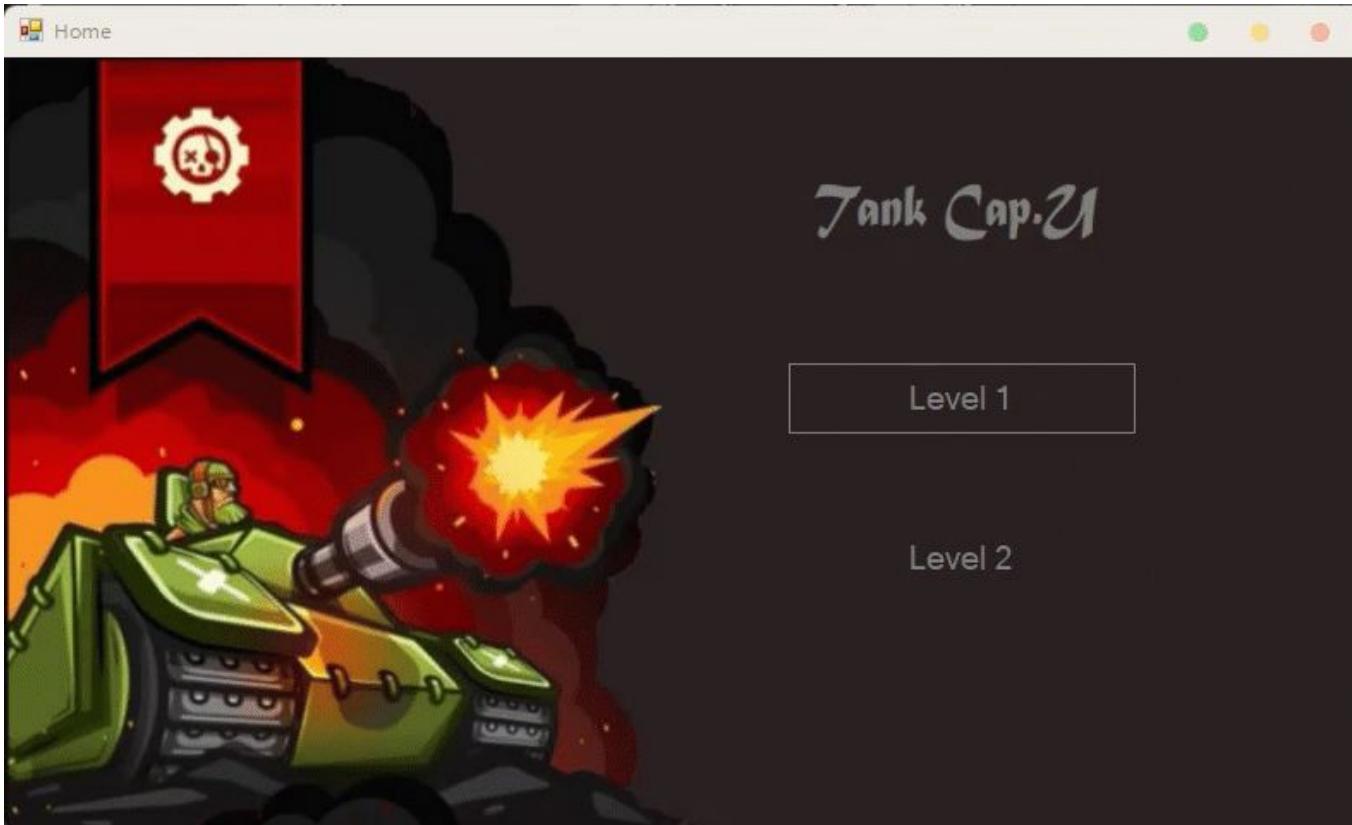
Enter the Marks of Science : 89

Enter the Marks of Islamiyat : 78

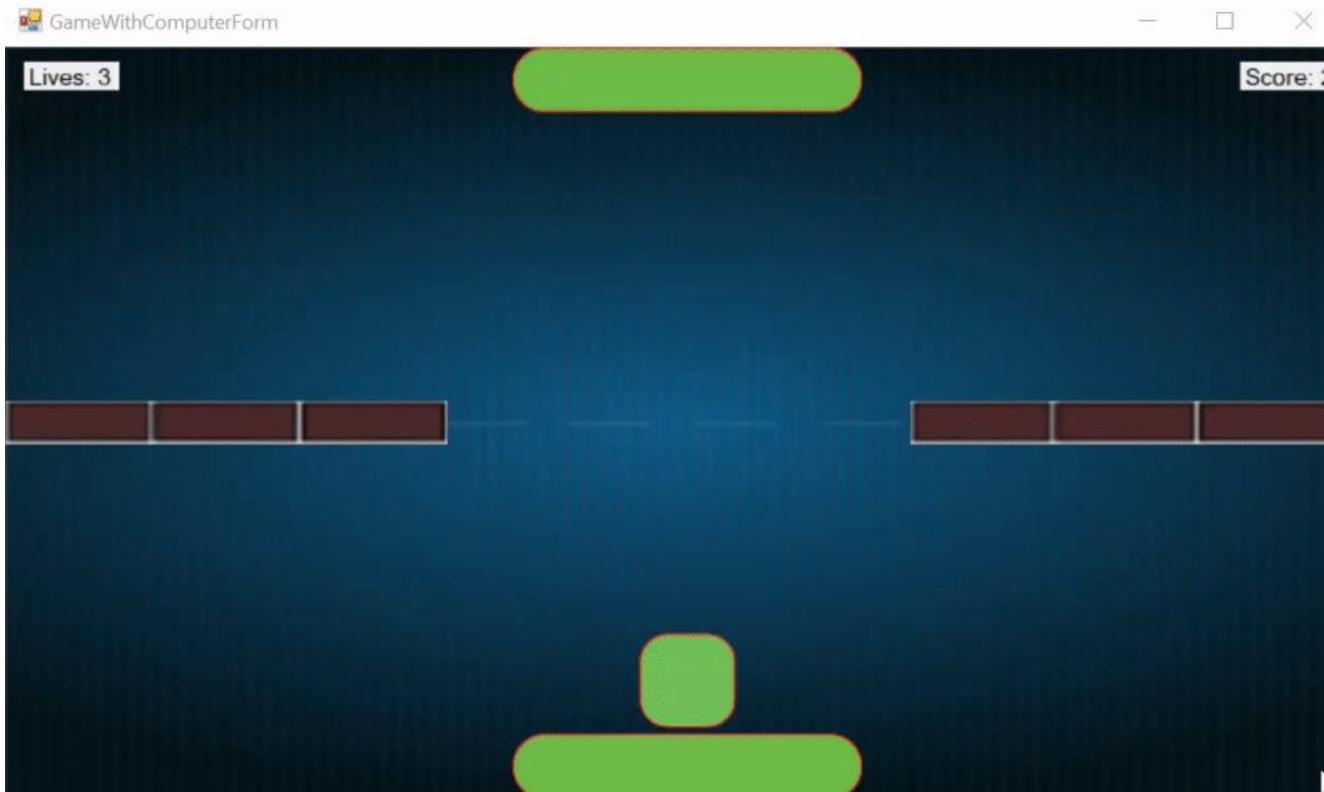
Total Marks : 422 And 84.4 %

Calculate Save

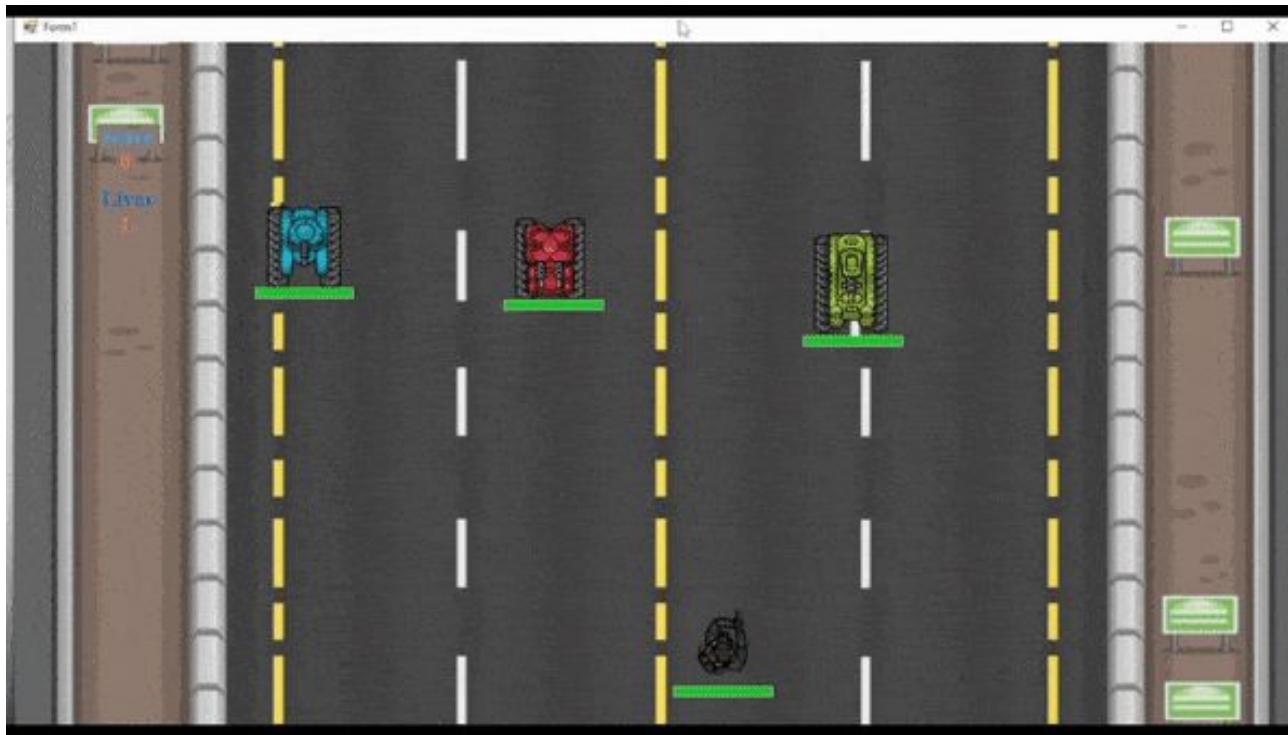
TankCap



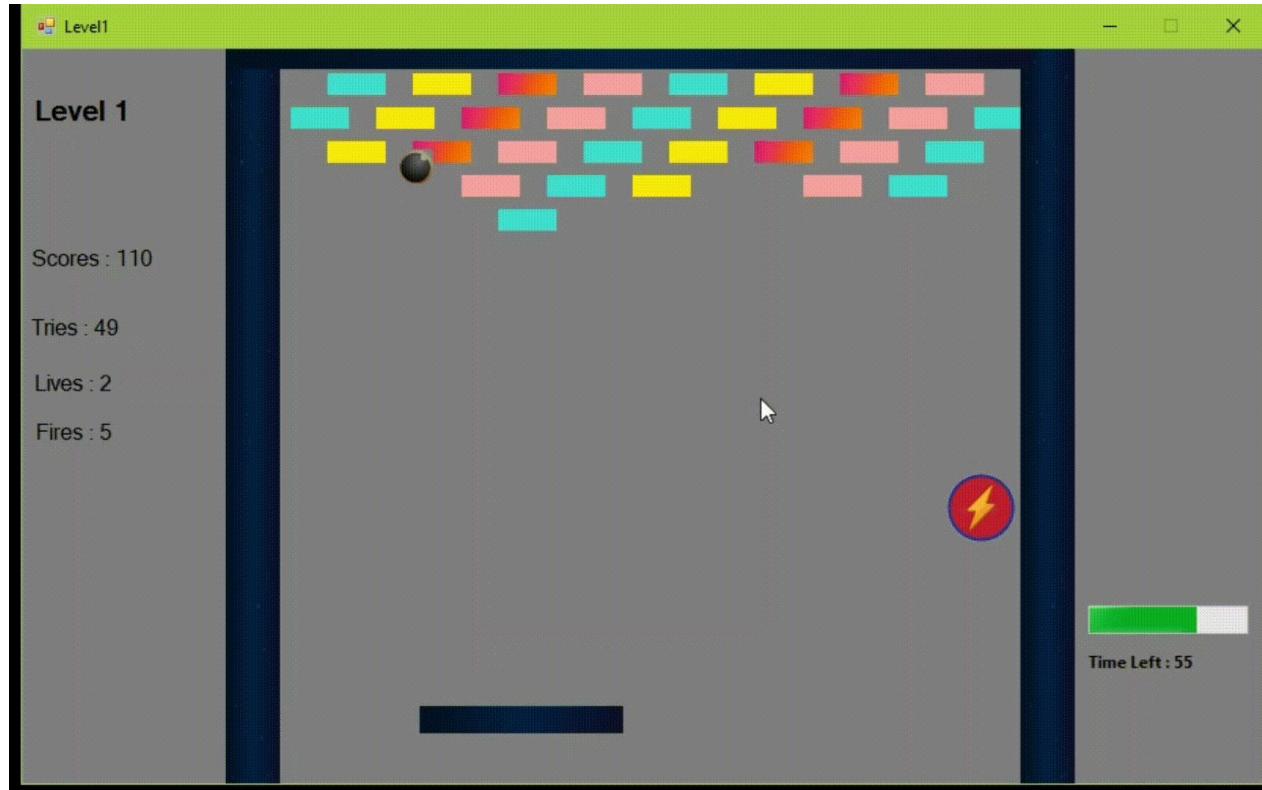
Ping Pong



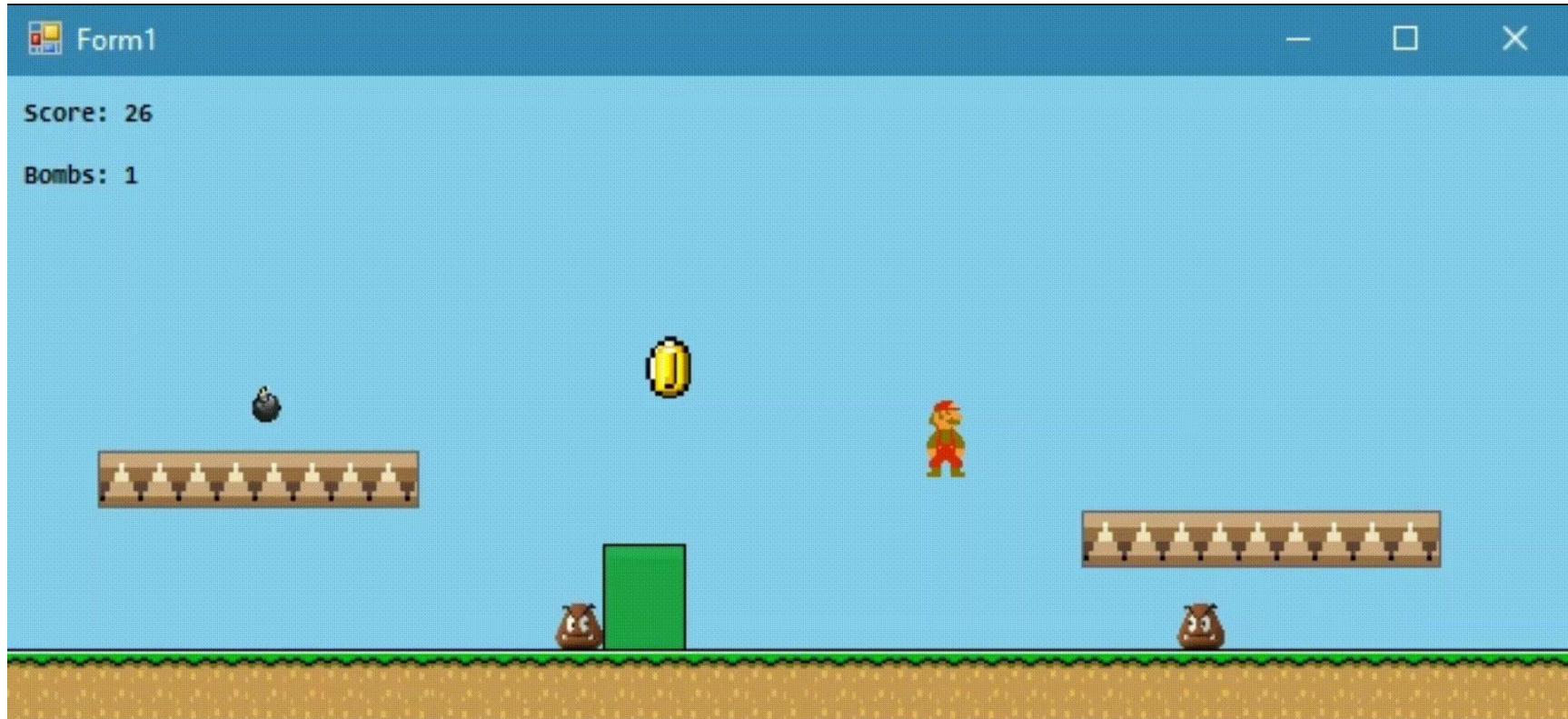
Fighting Game



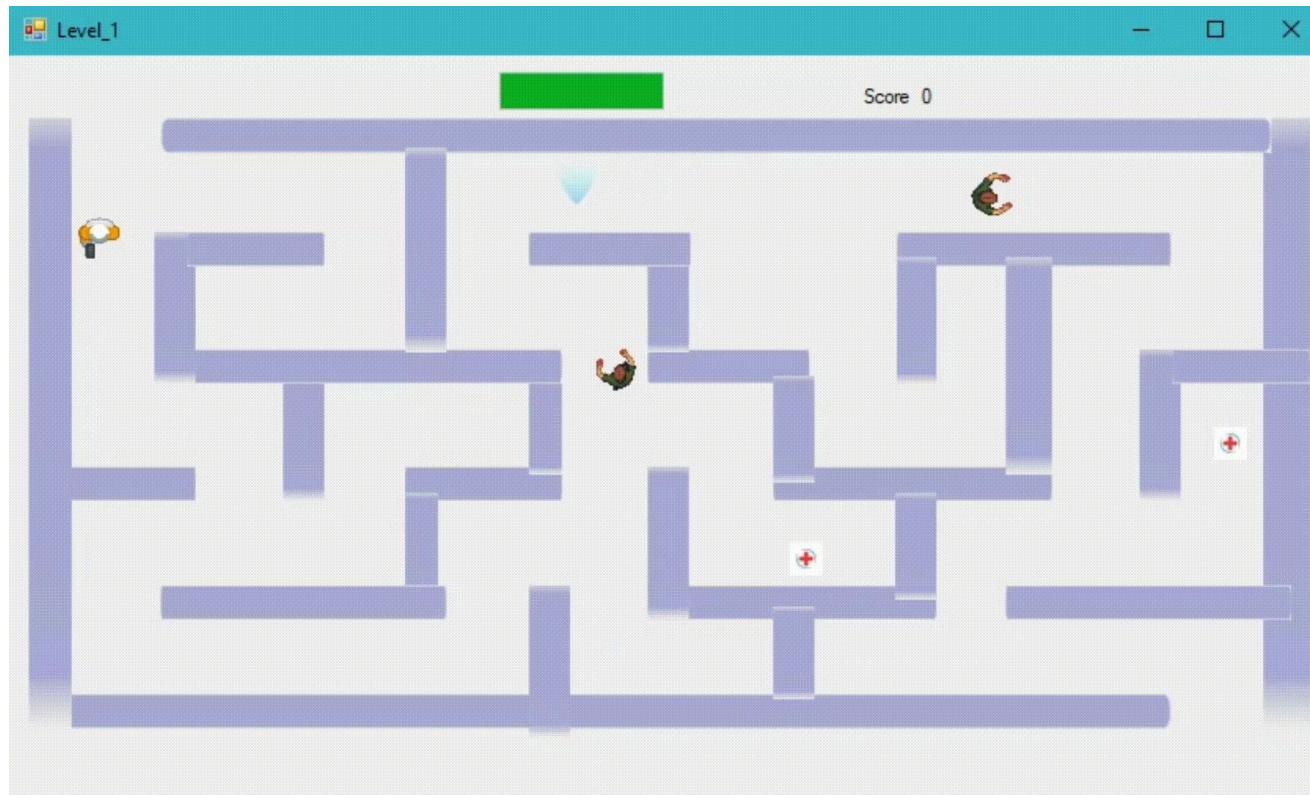
Brick Breaker



Super Mario



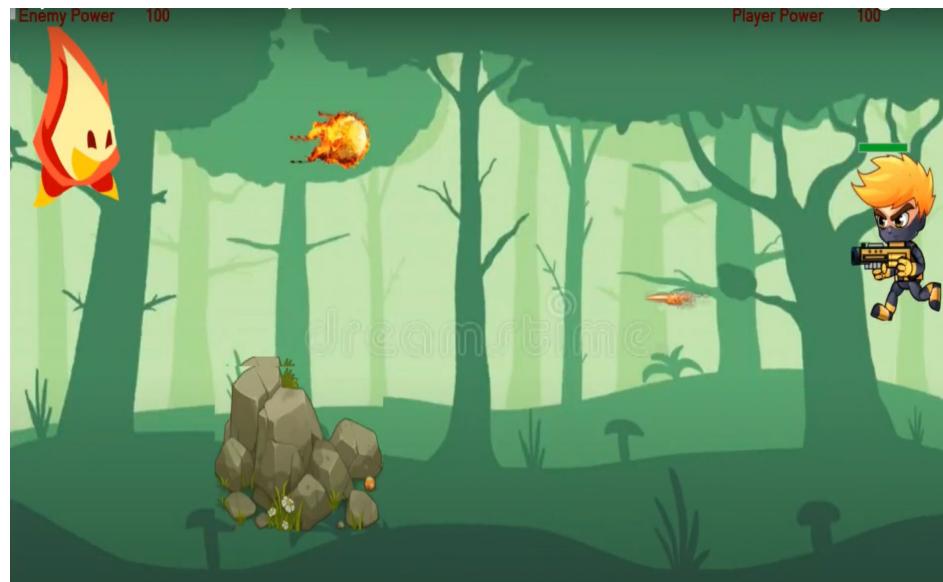
Fighting Game



Sea Diver



Ninja Fighter



Dragon Fighter



Self Assessment (Take Home)

1. Write the name of **E-commerce** website that you have personally used other than mentioned above?
2. Try to remember the name of **Movie** you have seen which was full of **Animations**?
3. Write a note on your **favourite** Application of Programming. This note include why you like it, what is its **advantages** and how can it may be **improved**.
4. Write a note what you **want** to develop if you will be **programmer**. List down the details.



Google Classroom Code

sout73g

Conclusion



Questions

