ICT INTRODUCTION

Done by: Mohammad Yehya

Table of Contents

[Intro 2](#_Toc83145864)

[Lab Activity 3](#_Toc83145865)

[Question 1 3](#_Toc83145866)

[Question 2 4](#_Toc83145867)

[Question 3 5](#_Toc83145868)

[Question 4 6](#_Toc83145869)

[Question 5 7](#_Toc83145870)

[Question 6 8](#_Toc83145871)

[Question 7 9](#_Toc83145872)

[Question 8 10](#_Toc83145873)

# Intro

My name is Mohammad Yehya and I passed my A levels from Highbrow College. The reason I chose FAST was because it is well known for its toughness and strict attitude which is essential for a competitive environment. As for my future goals, I want to be the best programmer in the world. Of course this won’t come to be immediately as it will take time and effort, but there is nothing stopping me and my goals.

# Lab Activity

## Question 1

**3.1 Performance measures**

**Let {*Q1,…., Qq*} be the set of query images. For the *i*-th**

**query *Qb* let *I1(i) ,….,Iai(i)* are correct answers and**

**rank *(Ij(i))* is the rank of *Ij(i)* in the result. We use**

**three performance measures [7]:**

**(1)*Avg-r =*  .**

**(2)*Avg-p =* .**

**(3)*Recall vs. Scope*: For query *Qi* and scope *S(S>0):***

***recall r =* |{*Ii(i)* |*rank*(*Ij(i)* ) *≤ S*}|/*ai .***

## Question 2

**Challenges:**

**Physical:** Saena primarily faces the physical challenges; as a traveling merchant’s daughter, she has learned to fight; she faces Dark fae but suffers weakness in her mental defenses against their magic; Aerim learns to fight from Saena and helps her learn to defend herself mentally.

**Magically:** Aerim is surprisingly resilient to magic and discovers his growing powers as he and Saena ventureinto the Forest to investigate their foe and find the root to the decay of the land; he must ultimately confront thetruth that his mother was a Dark fae and was responsible for introducing a sickness to the human race.

## Question 3

Finance

And economics are two very tricky subjects to grasp, yet ironically they are the easiest tools to use to make a country plummet in a dire situation. This is true for any country and generation, especially in this harsh pandemic known as COVID-19. Most of us already know that Pakistan does not have a very stable economy, some would even analogize it with glass because of how fragile it is, however due to this epidemic it has cascaded even further with some unprecedented results. In the fiscal year 2019-20, the GDP dropped from 3.94 per cent to a whopping -0.47 which is the first time it has gone negative ever since seventy years. Another thing to note is that measures taken to restrict the spread of the virus like lockdowns also damaged the financial situation as it caused unemployment. International aid and relief programs were issued and loans along with assistance from multilateral institutions were given to Pakistan. In the end, all we can do is come up with innovative ideas to help us survive while remaining safe as life truly is the greatest of commodities.

Writer: Mohammad Yehya

Link: <https://mohammadyehya21k3309.blogspot.com/2021/09/financial-condition-of-pakistan-during.html>

## Question 4

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Region** | **District** | **Store Name** | **Employee Name** | **Customer Count** | **Cost** | **Sale** |
| **± Ali** | **Total** |  |  | **153** | **9724** | **13149** |
|  | **± Ahmed** | **Total** |  | **153** | **9724** | **13149** |
|  |  | **± Imtiaz** |  |  |  |  |
|  |  |  | **Ayaz** | **53** | **611** | **830** |
|  |  |  | **Wajahat** | **40** | **731** | **1429** |
|  |  |  | **Maaz** | **60** | **8382** | **10890** |
| **Total** |  |  |  | **153** | **9724** | **13149** |

## 

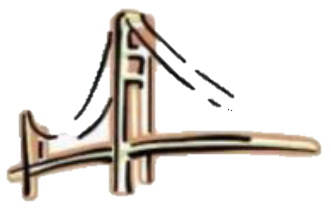
## Question 5

***Don't let the name fool you: a black hole is anything but empty space. Rather, it is a great amount of matter packed into a very small area - think of a star ten times more massive than the Sun squeezed into a sphere approximately the diameter of New York City. The result is a gravitational field so strong that nothing, not even light, can escape. In recent years, NASA instruments have painted a new picture of these strange objects that are, to many, the most fascinating objects in space.***

***The idea of an object in space so massive and dense that light could not escape it has been around for centuries. Most famously, black holes were predicted by Einstein's theory of general relativity, which showed that when a massive star dies, it leaves behind a small, dense remnant core. If the core's mass is more than about three times the mass of the Sun, the equations showed, the force of gravity overwhelms all other forces and produces a black hole.***

***Scientists can't directly observe black holes with telescopes that detect x-rays, light, or other forms of electromagnetic radiation. We can, however, infer the presence of black holes and study them by detecting their effect on other matter nearby. If a black hole passes through a cloud of interstellar matter, for example, it will draw matter inward in a process known as accretion. A similar process can occur if a normal star passes close to a black hole. In this case, the black hole can tear the star apart as it pulls it toward itself. As the attracted matter accelerates and heats up, it emits x-rays that radiate into space. Recent discoveries offer some tantalizing evidence that black holes have a dramatic influence on the neighborhoods around them - emitting powerful gamma ray bursts, devouring nearby stars, and spurring the growth of new stars in some areas while stalling it in others.***

## Question 6

San Francisco is the financial, cultural, and transportation center of the San Francisco Bay area, a region of 7.15 million people which includes San Jose and Oakland. The only consolidated city-country in California, it encompasses a land area of about 121 km2 on the northern end of the San Francisco peninsula, giving it a density of about 6,632 people per km2. It is the most densely settled large city (population greater than 200,000) in the state of California and the second-most densely populated large city in the United States after New York City. Today, San Francisco is one of the top tourist destinations in the world, ranking 33rd out of the 100 most visited cities worldwide, and is renowned for its chilly summer fog, steep rolling hills, eclectic mix of architecture, and its famous landmarks, including the **Golden Gate Bridge**, cable cars, and Chinatown. The city is also a principal banking and finance center, and the home to more than 30 international financial institutions, helping to make San Francisco rank eighteenth in the world’s top producing cities, ninth in the United States, and thirteenth place in the top twenty global financial centers.

## Question 7

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SIGN

PIC

## Question 8

|  |  |  |
| --- | --- | --- |
| Sr. | Facilities | Rate |
| 1. | Air Condition Room | 100$ |
| 2. | Double Bed | 80$ |
| 3. | Food Expense | 40$ |
| 4. | Nursing | 50$ |
| 5. | Cleaning | 30$ |
|  | Total | 300$ |