

# **Capture the Flag Competition**

Capture The Flag is a type of cybersecurity competition where participants solve puzzles or challenges to find "flags" hidden in various systems, networks, or applications. These challenges typically demand a wide range of skills, including cryptography, reverse engineering, web exploitation, binary analysis, forensics, and more.

CTF competitions can be organized in jeopardy-style. In a jeopardy-style CTF, challenges are divided into categories with different point values, and participants choose which challenges to tackle based on their skills and the points they offer.

## **Vision**

The vision is to encourage programmers to learn more about cyber-security and various vulnerabilities in applications that are there due to poor coding practices. These teach candidates many common vulnerabilities in applications and ways to defend, and avoid such vulnerabilities.

## **Venue**

Venue could be any class room with proper internet connection where candidates can bring their laptops and compete against each other. Ideally, I would choose a classroom in the Orion block since there is a good network there.

## **Budget**

There is a budget needed for prizes (if any). Other than that if we have to host the CTF website we will need money to buy a domain and server. Otherwise we can choose to host the website locally. And let the candidate connect to a common access point which will relieve us of the cost of the domain.

## **People Needed**

We need people to design a website, with login, which will display various challenges and accept and verify flags for each challenge. Also we need people to curate challenges on various domains like cryptography, web exploitation, binary exploitation, forensics etc. These can be simple challenges considering most of the people will be new to cybersecurity.

## **Publicity**

Publicity can be done by creating a small cryptographic puzzle which is needed to be solved to register for the event. This will create a lot of thrill and excitement amongst candidates about the program.