A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)

(Re-Accredited with 'B' Grade by NAAC)
(Affiliated to Adikavi Nannaya University)
Jagannaickpur, Kakinada

DEPARTMENT OF COMPUTER SCIENCE

2018-19

GUEST LECTURE

By

Dr.Ch.Naga Manisha

Date : 15-02-2019

Topic : **CAPTCHA**

Conducted by

N.NAGA SUBRAHMANYESWARI, LECTURER IN COMPUTER SCIENCE

G.SATYA SUNEETHA, LECTURER IN COMPUTER APPLICATIONS

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (A), KAKINADA

DEPARTMENT OF COMPUTER SCIENCE

Activity Register 2018-2019

Date	15/02/2019
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.)	Department of Computer Science
Nature of Activity (Seminar/Workshop/Extn. Lecture etc.,)	Guest Lecture
Title of the Activity	**CAPTCHA**
Name of the Department/Committee	Computer Science
Details of Resource Persons (Name , Designation etc.,)	**Dr.Ch.Naga Manisha,** Lecturer in Computer Applications, A.S.N.M. Govt. Degree College(A), Palakol.
No. of students participated	60
Brief Report on the activity	It gives the information about CAPTCHA and its applications in Network Security.
Name of the Lecturers who Planned & conducted the activity	N.Naga Subrahmanyeswari, Lecturer in Computer Science G.Satya Suneetha, Lecturer in Computer Applications
Signature of the Dept.In-Charge/ Convener of the Committee	N.N.S.Eswari INCHARGE DEPT OF COMPUTER SCIENCE A.S.D.GOVT.DEGREE COLLEGE(W)(AUTONOMOUS) KAKINADA
Signature of the Principal	H. Suvarchala PRINCIPAL A.S.D.GOVT.DEGREE COLLEGE (W) AUTONOMOUS KAKINADA
Remarks	

(* Brief Report of the activity has to be submitted along with evidences(Correspondence , Photographs, Paper Clippings, and Student Feedback etc).A separate record has to be prepared for each Academic year. The College Activity Register shall be with the Principal. All activities have to be recorded and the serial no of the activity has to be mentioned on the report of the activity.)

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DEPARTMENT OF COMPUTER SCIENCE

GUEST LECTURE

NAME OF THE GUEST : **Dr.Ch.Naga Manisha,**
Lecturer in Computer Applications,
A.S.N.M. Govt. Degree College(A), Palakol.

TOPIC : **CAPTCHA**

DATE : **15-02-2019**

VENUE : Computer Lab-II

N.N.S.Eswari
I/C CHARGE
DEPT. OF COMPUTER SCIENCE
A.S.D.GOVT. DEGREE COLLEGE (AUTONOMOUS)
KAKINADA

IN-CHARGE OF THE DEPARTMENT

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)

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Jagannaickpur, Kakinada

DEPARTMENT OF COMPUTER SCIENCE

GUEST LECTURE

TOPIC : CAPTCHA

Date: 15-02-2019 **VENUE: Computer Lab-II** **TIME: 2:00 PM**

TOPIC	VENUE	DATE	TIME	SIGNATURE OF THE GUEST
CAPTCHA	Computer Lab-II	15-02-2019	2 P.M.	

Signatures of the Lecturers of the Department:

1. N.N.S Eswari
2. Sunetha

N.N.S. Eswari
INCHARGE
DEPT. OF COMPUTER SCIENCE
A.S.D.GOVT. DEGREE COLLEGE (W) AUTONOMOUS
KAKINADA

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)

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Jagannaickpur, Kakinada

DEPARTMENT OF COMPUTER SCIENCE

INVITATION

స్త్రీ విద్యా ప్రవర్ధతాం

The Department of Computer Science wishes to arrange A Guest Lecture
on
15-02-2019 at 02.00 p.m. in Computer Lab-II

Topic: CAPTCHA

By

Dr.Ch.Naga Manisha,
Lecturer in Computer Applications,
A.S.N.M. Govt. Degree College(A), Palakol

N.N.S. Eswari
INCHARGE
DEPT. OF COMPUTER SCIENCE
AS GOVT. DEGREE COLLEGE (WOMEN) (AUTONOMOUS)
KAKINADA

In-charge of the Department

H. Suvarchala
PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

Principal

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)

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Jagannaickpur, Kakinada

DEPARTMENT OF COMPUTER SCIENCE

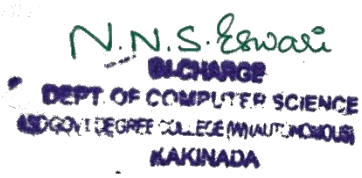
GUEST LECTURE

Guest Lecture conducted for the Students of III B.Sc(M.P.Cs) and III B.Com(C.A)

Name of the Lecturer **:** **Dr.Ch. Naga Manisha,**
Lecturer in Computer Applications,
A.S.N.M. Govt. Degree College (A),
Palakol.

Signatures of the Lecturers of the Department:

1. 

2. 

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)

Jagannaickpur, Kakinada

DEPARTMENT OF COMPUTER SCIENCE

GUEST LECTURE

Topic:CAPTCHA **Date:15-02-2019**

S.NO.	NAME OF THE STUDENT	CLASS/GROUP	SIGNATURE
1.	S. Satya Devi	III BSC [MPCS]	S. S Devi
2	K. Thansi Rani	III BSC [MPCS]	K. Thansi Rani
3.	SK. Habeeba Sulthana	III B.SC. [MPCS]	SK. Habeeba Sulthana
4	G. Anusha	III B.SC (MPCS)	G. Anusha
5	A. Durga Bhavani	III B.SC(MPCS)	A. Durga Bhavani
6	A.V.S. Ammani	III B.SC (MPCS)	A.V.S. Ammani
7	A. Lakshmi	III BSC (MPCS)	A. Lakshmi
8	SV. Sailaja	III BSC (MPCS)	SV. Sailaja
9	M. Sisusha	III BSC (MPCS)	M. Sisusha
10.	S. Aruna Kumari	III BSC (MPCS)	S. Aruna Kumari
11.	T. Sailaja	III BSC (MPCS)	T. Sailaja
12.	N. Pavani	III BSC (MPCS)	N. Pavani
13.	K. Sravani	III BSC (MPCS)	K. Sravani
14.	V. Devi	III BSC (MPCS)	V. Devi
15.	N. Devi	III B.Sc (MPCS)	N. Devi
16.	K. Suguna	III BSC (MPCS)	K. Suguna
17.	P. Mounika	III B.COM (C.A)	P. Mounika
18.	M. Aruna Padmaja	III B.com (C.A)	M. Aruna Padmaja
19.	N. Veeraveni	III B.com (C.A)	N. Veeraveni
20	G. Swapna kumari	III B.Com (C.A)	G. Swapna kumari
21	M. Gantha veni	III B Com (C.A)	M. Gantha veni
22	K. Suneetha	III B Com (C.A)	K. Suneetha
23.	B. Maneesha Rani	III B.COM (C.A)	B. Maneesha Rani
24.	B. Yamini	III B.COM (C.A)	B. Yamini
25.	N. Sumitra	III B.COM (C.A)	N. Sumitra
26.	K. Durga prasanna	III B.COM (C.A)	K. Durga prasanna
27.	M. Pavani	III B.com (C.A)	M. pavani

S.NO.	NAME OF THE STUDENT	CLASS/GROUP	SIGNATURE
28.	SK. Bhasheramma	III B.Com(C.A)	Sk. Basheramma
29.	M. Vanetha	III B.Com(C.A)	M Vanetha
30.	K. Deevena	II · B.Com (C.A)	K. Deevena
31	R. Divya Sai	III · B.com(C.A)	R. Divya Sai
32.	M. Veera mani	III · B.com(C.A)	M. Veera mani
33.	G. NAVya	II · B.com (C.A)	G. Navya
34.	M.V.S. Sirisha	III B.SC (MPCS)	M.V.S. Sirisha
35.	V. Ganga Bhavani	III B.SC (MPCS)	V.G. Bhavani
36.	A. divya	II B.SC (MPCS)	A. Divya
37.	V. Udayasri	III BSC (MPCS)	V. Udayasri
38.	m. Satya Sai	III BSC (MPCS)	m. satya sai
39.	D. Bhavani	III BSC (MPCS)	D. Bhavani
40.	Sk. NaBamin	III BSC (MPCS)	Sk. NaBamin
41	M Nagamani	III BSC (MPCS)	M. N. Mani
42	T. Bala Tripura Sundhari	III BSC (MPCS)	T. Bala.
43	V. Vijaya Mounika	III BSC (MPCS)	Vijaya Mounika
44.	V. Neelima	III BSC (MPCS)	Neelima.
45.	B. Venkata padma	III BSC (MPCS)	B. Venkata padma.
46.	Md. Asma	III B.com (CA)	Md. Asma
47.	P. Sandya	III B.com (CA)	P Sandya
48.	D. Swapna Kasturi	III B.com (C.A)	D. Swapna Kasturi
49.	D. Divya	III B.com (C.A)	D. Divya
50.	V. Bhavani	II B.Com (CA)	V. Bhavani

N.N.S. Eswari
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KAKINADA

CAPTCHA

CAPTCHA, an acronym that stands for **Completely Automated Public Turing Test to tell computers and humans apart**. A **CAPTCHA** is a type of challenge–response test used in computing to determine whether or not the user is human. A CAPTCHA is a program that protects websites against bots by generating and grading tests that humans can pass but current computer programs cannot. For example, humans can read distorted text but current computer programs can't.

Why would anyone need to create a test that can tell humans and computers apart? It's because of people trying to **game** the system -- they want to exploit weaknesses in the computers running the site. While these individuals probably make up a minority of all the people on the Internet, their actions can affect millions of users and Web sites. For example, a free e-mail service might find itself bombarded by account requests from an automated program. That automated program could be part of a larger attempt to send out spam mail to millions of people. The CAPTCHA test helps identify which users are real human beings and which ones are computer programs.

Examples


Configuration file
Configuration file
Configuration file
Configuration file
Configuration file
Configuration file
Configuration file
Configuration file
Configuration file
Configuration file
Configuration file
Configuration file


Type the two words:
reCAPTCHA
stop spam. read books.
Submit
The words above come from scanned books. By typing them, you help to digitize old texts.


vidoopSecure
VidoopCAPTCHA Demo
Display style:
Original
Space Saver Flyout
Space Saver Lightbox
B
Q
G
D
S
T
M
Z
H
P
I
O
Type in the 3 letters you see on pictures of the computer, the money, and the dog, in that order.

Working of CAPTCHA

CAPTCHAs work by asking to type a phrase that a robot would be hard-pressed to read. Commonly, these CAPTCHA phrases are pictures of scrambled words, but for visually impaired people they also could be voice recordings. These pictures and recordings are hard for conventional software programs to understand, and hence, robots are usually unable to type the phrase in response to the picture or recording. As artificial intelligence capabilities increase, the spam bots grow more sophisticated, so the CAPTCHAs generally evolve in complexity as a response.

Are CAPTCHAs Successful?

CAPTCHA tests effectively block most unsophisticated automated attacks, which is why they're so prevalent. They're not without their flaws, however, including a tendency to irritate people who have to answer them.

Google's Re-CAPTCHA software—the next evolution of CAPTCHA technology—uses a different approach. It tries to guess whether a session was initiated by a human or a bot by examining the behaviour when the page loads. If it can't tell a human is behind the keyboard, it offers a different kind of test, either the "click here to prove you're human" box or a visual puzzle based on a Google Images photo or a phrase scanned from Google Books. In the photo test, you click all the parts of an image that contains some sort of object, like a street sign or an automobile. Answer correctly, and you continue; answer incorrectly, and you're presented with another image puzzle to solve.

Some vendors offer technology that removes the "test" part of the CAPTCHA by granting or denying website access solely on some criteria related to the pattern of interaction of a Web session. If the security software suspects there's no human driving the session, it silently denies a connection. Otherwise, it grants access to the requested page without any intermediary test or quiz.

Applications of CAPTCHA

- **Preventing Comment Spam in Blogs.** Most bloggers are familiar with programs that submit bogus comments, usually for the purpose of raising search engine ranks of some website (e.g., "buy penny stocks here"). This is called comment spam. By using a CAPTCHA, only humans can enter comments on a blog. There is no need to make users sign up before they enter a comment, and no legitimate comments are ever lost!
- **Protecting Website Registration.** Several companies (Yahoo!, Microsoft, etc.) offer free email services. Up until a few years ago, most of these services suffered from a specific type of attack: "bots" that would sign up for thousands of email accounts every minute. The solution to this problem was to use CAPTCHAs to ensure that only humans obtain free accounts. In general, free services should be protected with a CAPTCHA in order to prevent abuse by automated scripts.
- **Protecting Email Addresses From Scrapers.** Spammers crawl the Web in search of email addresses posted in clear text. CAPTCHAs provide an effective mechanism to hide your email address from Web scrapers. The idea is to require users to solve a CAPTCHA before showing your email address. A free and secure implementation that uses CAPTCHAs to obfuscate an email address can be found at reCAPTCHA MailHide.

- **Online Polls.** In November 1999, *http://www.slashdot.org* released an online poll asking which was the best graduate school in computer science (a dangerous question to ask over the web!). As is the case with most online polls, IP addresses of voters were recorded in order to prevent single users from voting more than once. However, students at Carnegie Mellon found a way to stuff the ballots using programs that voted for CMU thousands of times. CMU's score started growing rapidly. The next day, students at MIT wrote their own program and the poll became a contest between voting "bots." MIT finished with 21,156 votes, Carnegie Mellon with 21,032 and every other school with less than 1,000. Can the result of any online poll be trusted? Not unless the poll ensures that only humans can vote.
- **Preventing Dictionary Attacks.** CAPTCHAs can also be used to prevent dictionary attacks in password systems. The idea is simple: prevent a computer from being able to iterate through the entire space of passwords by requiring it to solve a CAPTCHA after a certain number of unsuccessful logins. This is better than the classic approach of locking an account after a sequence of unsuccessful logins, since doing so allows an attacker to lock accounts at will.
- **Search Engine Bots.** It is sometimes desirable to keep webpages unindexed to prevent others from finding them easily. There is an html tag to prevent search engine bots from reading web pages. The tag, however, doesn't guarantee that bots won't read a web page; it only serves to say "no bots, please." Search engine bots, since they usually belong to large companies, respect web pages that don't want to allow them in. However, in order to truly guarantee that bots won't enter a web site, CAPTCHAs are needed.
- **Worms and Spam.** CAPTCHAs also offer a plausible solution against email worms and spam: "I will only accept an email if I know there is a human behind the other computer." A few companies are already marketing this idea.

reCAPTCHA

reCAPTCHA is a free service that protects your website from spam and abuse. reCAPTCHA uses an advanced risk analysis engine and adaptive challenges to keep automated software from engaging in abusive activities on your site. It does this while letting your valid users pass through with ease. reCAPTCHA is built for security. Armed with state of the art technology, reCAPTCHA is always at the forefront of spam and abuse fighting trends so it can provide you an unparalleled view into abusive traffic on your site.

N.N.S. Eswari
Signature of the HOD
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