

Srijan'13

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**innovative
technology
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high-tech
intelligence
visionary**

Department of Computer Science, University of Delhi



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Brain Waves

Juggling Java Security



Saurabh Garg (MCA 1st year)

Java, words may not be enough to describe this masterpiece conceived by James Gosling & Co. in 1995. Today it has become one of the most famous and widespread languages that basically powers all of the internet applications. It is also well known that implementation of proper security has become a trademark of Java which forms the basis of millions of web applications and software running the internet. What's not well known though, is the fact that this language with seemingly unbreachable security does have its share of loopholes. These range from leaving comprehensible code traces in byte code to circumventing entire Java encapsulation model that can be fatal to the running application as well as the system. What aggravates the problem even further is the fact that today Java forms the basis of a plethora of other languages which use the Java model. These include languages for mobile technology such as Android. Here is a brief look up at the two major pitfalls to watch out for:

- I. **Java Bytecode:** Most of us know that Java converts the source code into a set of complex instructions known as the bytecode that can be interpreted on different machines using JVM (Java Virtual Machine). Each token in the source code is converted to an internal representation which is unreadable by the human eye. But watch out, all content of the form String in the source code remains in the bytecode as it is without any encryption. So, developers may not want to store any sort of critical information in the String class.
- II. **Worst Hit Applications:** Many database applications that store critical information like transactions and even passwords in some cases in String form can be breached using a spammer based on the bytecode of the application. Beware!

"However, when Java is promoted as the sole programming language, its flaws and limitations become serious."

~Bjarne Stroustrup

I. **Circumventing Encapsulation**: Strict encapsulation model provided by Java is one of the base reasons why Java is termed as secure. But there do exist some ways in which encapsulation can be circumvented. Unfortunately, these techniques are quite trivial and can be misused to a great extent by anyone having a decent know-how of Java. I do not encourage any form of misuse, therefore, I forbid myself from providing generic examples but I do point out the flaws from the security point of view.

a) **Sub classing**: Java uses a library of several classes that provide critical functions but are not declared as *final*. This does not prevent them from being sub classed and being overridden by “rogue” classes. What makes this problem deadly is the fact that certain online applications ask the client application to provide its own set of classes to manipulate the functions supplied by these critical classes. A “rogue” subclass may simply override the function required by the online application by one of its own and create problems scaling to DOS attacks.

b) **Java's in-built API's**: Reflection is one of Java's API that provides for inspecting the contents of an object dynamically. However, this functionality is provided in such a way that completely breaks the encapsulation model of Java. *Field* class and *Method* class under this API provide ways to inspect, manipulate and even change the accessibility rules of *private* methods and fields of any non-related class and that too dynamically.

Worst Hit Applications: If enough is known about the application code running online, this flaw can be used to inspect as well as manipulate all data carried by the application at runtime.

Thus, while Java appears to be a safe and secure haven for building applications that are to be run online(which it indeed is to a great extent), it is advisable for programmers to not be ignorant while building the application's security layer. This includes other languages as well that use this model such as Android. Follow proper programming practices (try not to leave sensitive information to String classes within your code), provide your own robust security layer for your application. Over relying on Java's security model might not give your application the needed security over the web.

“Technology...is a queer thing. It brings you great gifts with one hand, and it stabs you in the back with the other.”

~C.P. Snow

The International Consumer Electronic Show 2013



Compiled by-Avni Jindal (M.Sc. Computer Science, 1st year)

Date: 8-11 Jan, 2013

Venue: Las Vegas Convention Centre

Location: Las Vegas, Nevada, United States

Description: The International Consumer Electronic Show 2013

The CES is a major technology-related trade show. Not open to the public, the show typically hosts previews of products and new product announcements. Here are some of the top stories from the three day show.

1. Sony announced the world's first 4k OLED TV at CES: 3,840 x 2,160 resolution

The most exciting thing to emerge at CES 2013 was the news that Sony has produced the world's first Ultra High Definition television that uses Organic LEDs. The 56-inch set boasts a native 3,840 x 2,160 OLED panel, and a prototype was displayed at CES 2013 in Las Vegas.



2. Swype Beta for Android

The app's developer company, Nuance officially announced the newest beta version of the popular Android keyboard. The newest beta version of Swype for Android, comes with it two noteworthy features.

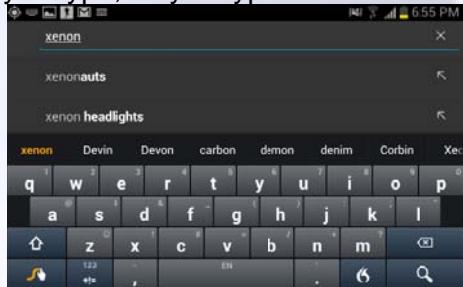
First, is *Swype Living Language*. If you decide to opt in to this new feature, Swype will use crowd

sourcing to analyze words and phrases that are being used by the masses in real time, and continuously update your language dictionary accordingly. This means a smarter keyboard and better predictions for you.

"Intellectuals solve problems; geniuses prevent them."

~ Albert Einstein

Second, is the new *Smart Editor*. This new feature allows Swype to analyze your sentences and the contexts in which you're typing, and offer suggestions to correct potential mistakes. The key here is its ability to analyze context, which makes Swype feel like it actually "understands" what you type, as you type it.



3. Lenovo announces the Idea Pad Yoga 11S with Ivy Bridge, Windows 8; arrives in June



Type: Tablet

Form factor: Convertible

Screen size: 11 inches

Screen resolution: 1600 x 900

Bundled OS: Windows (8)

CPU family: Core i5

System RAM: 8 GB

Hard drive(s): 128 GB (total)

Touch screen: yes

Releasing date: June, 2013

"Any sufficiently advanced technology is indistinguishable from magic."

~Arthur C. Clarke





JUST ANOTHER STORY



Trisha Chatterjee (M.Sc. Computer Science, 1st year)

"Life" is ever wanting. The people, the circumstances, every moment; they want something from you. If you have nothing, nothing at all to give, then you are NOT "wanted". You've got to keep doing something. You've got to "contribute". You can only stop once; once and for all- when "you're dead".

This is not yet another boring piece, telling you about the dark side of life and does not advise you on how lead a "better" life. This is the story of my life; my ever demanding life.

Mr Robert Johansson was a very successful businessman. He owned a couple of houses and half a dozen cars. He had a loving wife who spent her time sewing, watching television and gossiping with other women. The couple was blessed with happiness of every kind, except the most precious one; Mrs Johansson's womb never felt the gentle kick of a to-be-born. In her spare time, when no one would be there in her enormous mansion, she would lock herself up in her room, asking the servants to dare not disturb her. She would slowly take out a drawer from underneath her bed- a drawer full of pictures of children, little Rosie's broken toy, Johnny's worn out plastic ball, Robert's lost shoelace, and several such priceless items. She never hesitated to pick up any "item" thrown away by a child. They would all be added to her precious assortment.

She had everything that money could buy in this planet. But what she wanted most could never be bought with money. The laughter of a child echoing in her house throughout the day and turning into a tired giggle at night, the touch of his soft head on her lap, she running around the house so that her little one takes at least one spoon of that pudding she had cooked with so much love; oh what would Mrs Johansson not give to have it all, to cherish each of these moments.

"Life is full of beauty. Notice it. Notice the bumble bee, the small child, and the smiling faces. Smell the rain, and feel the wind. Live your life to the fullest potential, and fight for your dreams."

~Ashley Smith

The Johansson's had tried all techniques medically possible. But, it seemed like God was too harsh on them. They even tried adopting a child. But whenever Mrs Johansson went to any orphanage, she could not decide which child to take as her own. She wanted them all, each and every one of them. The thought of selecting one seemed to cause her immense pain. Mr Johansson took his wife's behaviour to be an indication of the fact that she was becoming mentally ill. He loved her very much. Hence, he stopped taking her to the orphanages. But that made situations even worse! She missed seeing those happy faces all around her.

Their relatives stopped bringing their children over to the Johanssons' place. They claimed that Mrs. Johansson clung to them more than required. How would they know? How would they understand?

Mr Johansson consulted the best doctor in town to cure his wife. There they were, all the relatives and the friends of the Johansson's, saying quiet little prayers and sympathising with the state of the poor soul, and saying to each other how thoughtful it was for good old Robert to finally consult a medical man. Only the one above knew how, they, bringing their children would have helped the poor lady more than the tons of their empathies and sympathies!

One fine morning Mrs Johansson was walking with two of her servants. It was a regular exercise as suggested by the doctor. Suddenly, Mrs Johansson found a little girl feeding on the left overs thrown out of the back door of a restaurant. She stopped dead on the street. The world around her seemed to pause for a moment and then the next moment it seemed to zoom past her at the speed of light. For a few minutes she was unable to hear or say anything. It took a while before she ran to the girl and embraced her with all her strength. The child was rather disturbed at the lady's behaviour. This sudden embrace caused a big piece of hot dog to fall out of her hand. She was too hungry and this activity seemed to irritate her even more. Mrs Johansson picked up the piece of bread and handed it over to the girl. She smiled at Mrs Johansson and started eating it. Mrs Johansson tried asking her name. But she was too shy to utter even a single word! Mrs Johansson brought her home. Mr Johansson hesitated at first, but then embraced the five year old with all his love.

It turned out that Linda was not just shy, she was deaf and dumb too! All the laughter and screams that Mrs Johansson had longed to hear never came true. But Mrs Johansson never felt their absence.

"To love is to risk not being loved in return. To hope is to risk pain. To try is to risk failure, but risk must be taken because the greatest hazard in life is to risk nothing."

All that mattered to her then, was that Linda was there with her; all day, all night. She loved Linda like she was never loved before. She gave her education. She never differentiated her from the other "normal" kids. She never taught Linda that she was not as capable as them. She was the happiest mother alive!

Her "friends and relatives" were too worried about Linda's future. How would she ever get a man who would be ready to marry her? Will she always be dependent on her parents? What will happen to Mr and Mrs Johansson when age will start defying them? What will happen to Linda after their death? But Mrs Johansson knew Linda was perfectly capable of facing every challenge of life alone.

Linda fell in love at the age of sixteen. Bruce was a decent boy. He used to play with Linda as a kid. He had found a rather personalised way of communicating with Linda. He liked Linda; but did not love her. It would be more appropriate to rephrase the previous statement: "He loved her very much!", but was afraid of his family, his mother, the society to accept it. He thought of it in a very positive light. He had faith that someday he would meet a beautiful "normal" girl. Her love will make him forget all about Linda. He tried to avoid Linda at all social gatherings, but ended up come running to her every now and then. Linda was too much in love to even figure out what was going on with Bruce. Why would he avoid her all evening and then come running back to her the next morning?

Mrs Johansson watched it all. She knew that Bruce would never accept Linda. But she could do nothing to stop Linda fall deeper in Bruce's love with each passing day. She had tried once to talk to Linda but ended up hurting her ever so much. She dreaded when that moment would eventually come.

And it came, in the most terrible way possible. One evening Bruce turned up with a girl at Mr Robinson's party. He walked up to Linda and introduced her to his "girlfriend". Linda was completely shattered. She had never dreamt in her wildest dream that such a thing could ever happen with Bruce. She spent that entire night crying in Mrs Johansson's arms. The next day and many more days after that evening passed by in an effort to make life return to normalcy again. All wounds take time to heal; this wound in particular was taking the longest though.

Slowly everything started to become normal. Mrs Johansson saw a smiling Linda again. Linda wished to go to Alaska for further studies. Mrs Johansson was rather hesitant to let her go. Linda had started to do more things that would make her independent before she went to Alaska. One fine day she decided to start taking driving lessons from her father. Mrs Johansson almost had a heart attack when Linda came to ask her permission. She was determined never to let Linda drive. How would she even hear the cars honking behind her?

"Perhaps our eyes need to be washed by our tears once in a while, so that we can see life with a clearer view again."

Mr Johansson, on the other hand, had confidence in Linda. So one day, against all her will, Mrs Johansson allowed her husband take Linda out for the first lesson. She was having such palpitation soon after they left. She was so restless that she was even unable to sit down at one place. She kept on uttering only one line in her head, "Why did she say yes?"

When the father and the daughter finally came back home, Mrs Johansson went running to the door. She embraced Linda with the same strength and love with which she had held her the day she had found her. She kissed Linda over and over again. She caressed her like she had never done before. Mrs Johansson was now convinced that Linda can do anything that a "normal" person can do. She had complete faith and confidence in her daughter.

One evening she cooked Linda's favourite pudding and was waiting for her to come back from her driving lessons. Linda had learnt to drive, but Mr Johansson was too afraid to let her go all alone yet. Slowly evening turned into night. They did not come back. She panicked and panicked even more. In the end she called the police.

Mr Johansson and Linda had died in an accident. Their car had collided into a loaded truck head on. It was hard to determine whose fault it was. But Mrs Johansson knew it very well. It was her fault all along.

"Life has always betrayed me. I, Mrs Anne Johansson, am now left behind to lead this life all alone. Why is my life always so demanding? What else does it want from me? What has it left for me to live?

Yet, I keep on living, holding on to the memories of the most valuable things of my life. I was never denied money. But, I would have rather appreciated if it was happiness, and not money, that would have been gifted to me in plenty.

Every afternoon I lock myself up in my room. I spend time with my daughter's stuff- her toys, her books, her clothes, every piece of thing that preserved a part of her within it. And then I wipe my tears, get up, and start calling out, "Where has Linda gone now? Someone go and bring her home, I have cooked her favourite pudding" ... "Oh! Come on Linda! It's time to take your medicines" ... "Linda get up right now! Close your books and turn off the light! Enough of studying my Lady Know-It-All! You will go to bed right away! No more excuses Miss!" ... "Oh Linda! My darling! My sweetheart! Come to me my love!" ... Linda... Linda...Linda..."

"When we long for life without difficulties, remind us that oaks grow strong in contrary winds and diamonds are made under pressure"

~Peter Marshall

ये ज़िंदगी....

कोई कमी— सी लगती है ,
किताबों के पन्नों-सी ज़िंदगी लगती है ।
रंग तो बहुत हैं इसमें,
फिर भी वेरंग कोरे कागज्-सी लगती है ।
होती है रुबरु
ये रंगीन चेहरों से रोज़ ,
इन रंगों से जगमग चमक जाती है ये
फिर भी इस चकाचौंध में अकेली रह जाती है ये ।

याद आते हैं इसे वो दिन
जब परियों की कहानी-सी थी ये,
मिटटी में खेलती थी
तितली के रंगों से भरी थी ये ।
एक मिठाई में सिमटी थीं खुशियाँ इसकी,
माँ के औंचल से बँधी थी डोर इसकी,
इसकी मासुमियत इसकी शान थी ,
इसकी जिज्ञासा इसकी पहचान थी ।
ना कुछ खोने का डर था इसे,
ना कुछ पाने की आस थी इसे,
वेफिक वेपरवाह आज़ाद थी ये,
जब परियों की कहानी-सी थी ये ।

ये यादें इसे सिखाती हैं,
खुशियों का मतलब समझाती हैं ।
सिखाती हैं खुलकर जीना
हँसना और हँसाना,
विना किसी उम्मीद के
वस समय के साथ वहते चले जाना ।
खुद ही इसे रंगों से भरना
और इन्हीं रंगों में ढूब जाना ।
अब संपूर्ण -सी लगती है
किताबों के पन्नों-सी ज़िंदगी,
अब खूबसूरत लगती है ।

Swati Goel (MCA 1st Year)



LIFE



Sukanya Gupta (M.Sc. Computer Science, 1st year)

"Some of us fall by the wayside. And some of us soar to the stars. And some of us sail through our troubles while some have to live with the scars"

"Life is a wheel of fortune, a leap of faith and a band of hope until we find our place in the path that unwinds" --Elton John

It surely is what you make of it! In the course of life, it sometimes becomes necessary to do something out of the ordinary to accomplish our goals. Evolution of man has not come to a halt. In this deep and dangerous jungle, where the rule of survival of the fittest applies, man has to evolve each and every second.

Success is not everybody's cup of tea. It not only requires a balanced and focused mind, but also requires a mind open to new ideas, a mind with an urge to explore the unexplored, a mind with the wish to learn the ropes of life. These are the people who stand out in a crowd and shine over the mediocre. As we look through our lives, there are many such people who have made their mark in this world of cut-throat competition and inspire us to do the same. Excellence has always been their aim. Striving for excellence is a positive quality but striving for perfection is self -defeating.

Socrates once said that life without reflection is a life not worth living. Without learning we cannot grow. We remain stagnant and we merely exist. We hold on to the same attitudes and perceptions without allowing the influence of our actions or that of other people to affect us at all.

We have all been given the marvellous gift of life and the gift of self. If we are to develop that self into a higher self, a person who is sensitive to others, and wiser and more strongly developed-the right influence provides the finishing touches. Simple yet profound lessons can be understood from Nature. Its beauty and eloquence has fascinated and inspired many artists, scientists and writers to give their outstanding contribution to mankind. The law of Nature says that every creature's role in the grand scheme is to take as well as to give.

Life is strange. It expects us to make the right choice at right times. Our decisions determine the true nature of our life. We observe that life is a series of changes and it is on our part how beautifully we accept those changes!!

"How wonderful it is that nobody need wait a single moment before starting to improve the world." ~Anne Frank

Rape is not a sex issue, it's a gender issue.



Kimi Singh (MCA 1st year)

"Now, should we treat women as independent agents, responsible for themselves? Of course. But being responsible has nothing to do with being raped. Women don't get raped because they were drinking or took drugs. Women do not get raped because they weren't careful enough. Women get raped because someone raped them."

— Jessica Valenti, *The Purity Myth: How America's Obsession with Virginity is Hurting Young Women.*

Rape, is it just some unstoppable urge to have sex that makes a man go to an extent of raping a woman?? If it were so, the solution was easy. Chemical castration as is being proposed these days could solve the problem to a fair extent. But that would be useful after a man has committed rape. The bigger question, however, is how to stop rape from happening in the first place.

We may argue over this but just can't deny that, ours is a male dominated society. Man is powerful and woman is not. That's it. End of story. Really? No! Some would argue that today women are making great strides in all walks of life; they are "proving" that they can do much more than wash dirty linen and cook their husband's favorite dish for dinner.

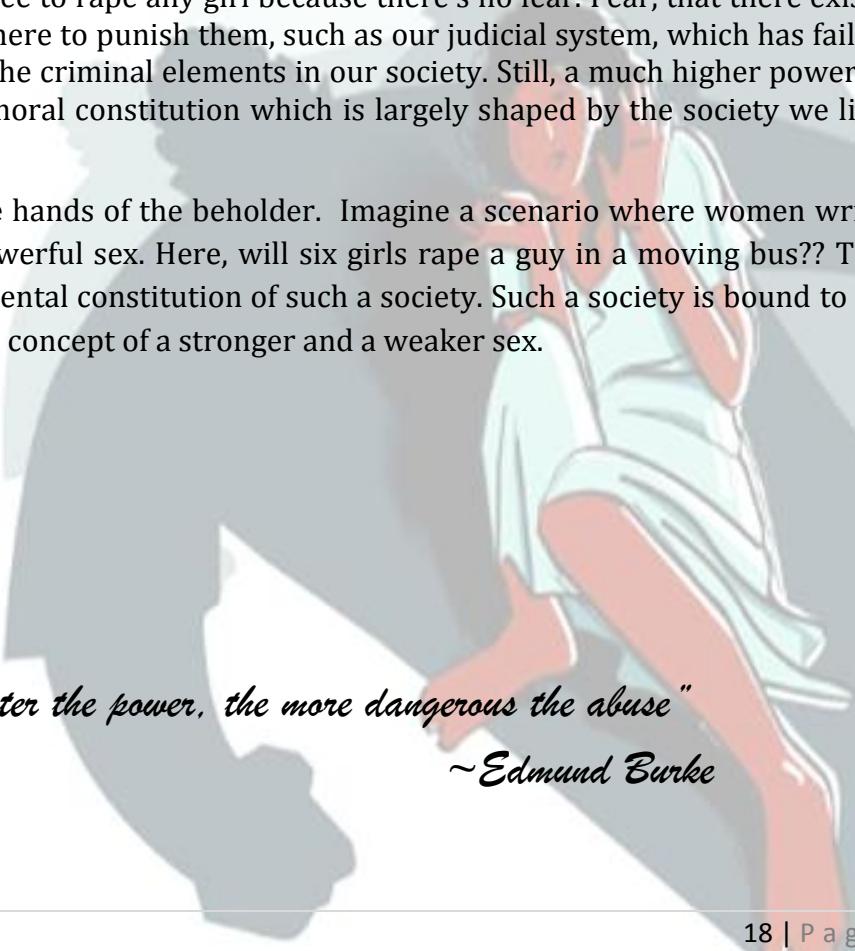
"The emotional, sexual, and psychological stereotyping of females begins when the doctor says: "It's a girl. "

~Shirley Chisholm

Women are now emerging to be stronger and proving themselves as powerful substitutes of their male counterparts. If that's the case then why are most of the crimes rampant in our society committed against females? What is that thought so deeply planted in our minds that such heinous crimes against women continue to increase at an alarming rate? According to the New York Times, rape in India has risen about 25 percent over the past few years; over 40 percent of the child marriages in the world take place in India. Sex selective abortions occur here at staggering rates. In 2011, the gender ratio was at its most imbalanced since India's 1947 independence: among children six years old or under, there were only 914 girls per every 1,000 boys. Ours is a particularly tough place to be a female.

What is making beasts out of our society? Some have speculated that it is driven by the realities of a modernizing society that brings women into public spaces and professional life in greater numbers, a phenomenon that some young men view as threatening. Sadly it's a deep rooted notion of our society that women are in fact the weaker sex, nothing more than objects. You tend to vent out your frustration on someone weaker than you; in our case women. The recent brutal rape of a 23-year old girl has yet again made us question the kind of society we have become. She was gang-raped, beaten, and thrown naked from the bus that she and her boyfriend had tragically got on after seeing a movie on December 16, 2012. It was not just a rape incident but a powerful yet disturbing indicator of our outlook towards women. Most often, women who are raped are tagged characterless, we raise fingers at such women for "provoking" men because according to our society men should not be blamed for not keeping their hormones in check, it's the woman who is responsible, always. Today men feel free to rape any girl because there's no fear. Fear, that there exists a higher power which is there to punish them, such as our judicial system, which has failed tremendously in curbing the criminal elements in our society. Still, a much higher power is within us, our very own moral constitution which is largely shaped by the society we live in.

Abuse of power lies in the hands of the beholder. Imagine a scenario where women write the rules, they are the powerful sex. Here, will six girls rape a guy in a moving bus?? The answer again lies in the mental constitution of such a society. Such a society is bound to be in a crisis if it nurtures the concept of a stronger and a weaker sex.



"The greater the power, the more dangerous the abuse"

~ Edmund Burke

Dilli ki sardi



Harshita Joshi (M.Sc Computer Science, 1st year)

Delhiites are proud people - be it their sense of fashion , the sumptuous street food, their SUVs and though, their heads hang in shame post Delhi being christened as India's 'Rape Capital', what they are and will never cease to be proud of is – *Dilli ki Sardi* !

The whiff of cold air that greets the Delhiites in October tells them that they no longer need to sweat it out. But, just as a small ball of snow kicked down a hill gathers more snow and becomes a giant, these once pleasant October winds, aided by the gradually plummeting temperatures become chilly and before you know it, they come knocking at your face on a winter morning.

You wake up to an immensely cold winter morning and despite having an ideal nine hours of sleep, you wish to never leave the warm comfort of your quilt. Winter in Delhi is synonymous with *garam chai*, soups, peanuts and food hot and steaming. As you sip coffee, with its steam mingling with the steam being issued from your mouth, within seconds it has already turned cold! Oh, what a brutal enemy the cold is!

To beat the cold, people in Delhi do it all- from sitting around bonfires to drinking gallons of tea to wearing multiple layers of woollens. So, if while walking through the streets you fail to recognize your friends because all you can see are their eyes, you'll know whom to blame!

"Blow, blow, thou winter wind, thou art not so unkind as man's ingratitude."

~William Shakespeare

As the plummeting temperatures set everybody shivering, the news of school holidays getting extended is highly anticipated and never fails to receive a warm welcome each year.

Winter does not discriminate between the rich and the poor but, it seems to love the poor more. With no roof over their heads and clothes to keep them warm, the less-privileged of Delhi are the worst hit by cold. The cold is like a witch with claws of death, lured by whom hundreds of homeless surrender their lives to her.

Somehow the Delhiites who are known for their “warm and loving nature” are apparently running out of love for their brothers who live on the streets. How many of us know that Delhi’s harsh winter threatens the lives of 1, 50,000 men, women and children? And out of these homeless people, women and children account to 50,000. The Delhi Government has set up 150 night shelters in Delhi, managed by various NGO’s, which house only 75,000 people. The rest of Delhi’s homeless have no option but to sleep on cold streets all through winter. Many migrants from surrounding states who work as rickshaw pullers line up outside night shelters, where they pay Rs. 6 for 12 hours of sleep. Since when did people need to start paying for a good night’s sleep?

The irony is that in an effort to become a world class city, Delhi doesn’t want its homeless sleeping on the road but, it also doesn’t make more shelters for them. When NGO’s working with the homeless point out areas where there are homeless people, the police have them forcefully evicted from there. It’s high time the Government built more shelters to accommodate Delhi’s homeless.

Why just the government? Now that we are finally (hopefully) waking up to the need of safeguarding the rights of women, let us also become sensitive towards the under-privileged. To double the joy of festivities that come in with winter, go approach an NGO and just as the ‘Agewell Foundation’ puts it, ‘If you’re warm this winter, share it!’ Give away blankets and warm clothes to the destitute. This way you will not only be helping people to brave the cold but will also feel good about yourself, not to mention the blessings you’ll receive and the brownie points you’ll earn!

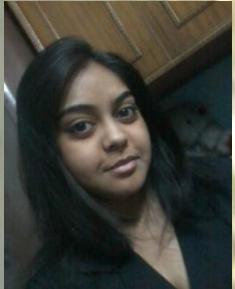
Winter is not just about the warmth of the hearth; it’s also about the warmth of our hearts which, according to me, will help us brave the chill better.

Cheers to **Dilli ki Sardi!**

“One kind word can warm three winter months.”

~Japanese Proverb

Morning Show!



Kanika Basra (M.Sc. Computer Science, 1st year)

I saw the sky whispering,
whispering through these shining waves,
realizing that we are embraced in his hands.
A touch will come to rescue us from the killer dilemma through a
stunning lift from this beautiful sky,
teaching us the ultimate truth of another chance
to grow, laugh, care and love!!
Darkness will elope to a place in oblivion.

Winding up the curtains and breaking the spotlight
for another show,
Bestowing another drop to reside on the weary soul,
with all members -
trees, birds, sun, and waves
each playing on the stage, adding vitality.

God immersed His quill into shining ink,
to begin the stories of lovely fairies,
Stealing the spark from pearls and
Exuberance from ocean waves,
Capturing the words, to print on our destiny!!

"Waking up this morning, I smile. Twenty-four brand new hours are before me. I vow to live fully in each moment. " - Thich Nhất Hạnh

WINTER TRAINING @ ST WEBSOFT



Sudhanshu Kumar Singh (MCA 1st year)

For the first time in DUCS, a startup company named ST Websoft came with a unique 15 days Winter Internship programme for first year students. ST Websoft (P) Ltd., with its office in Delhi, provides web based solutions and software development services. Although we were excited about this programme, but at the same time were also concerned whether this programme would be an intelligent bargain against our vacation plans or not.

"Trying something new is not everyone's choice, but sometimes it's worth it."

With this spirit, 12 students from both M.Sc and M.C.A first year got their first Internship Appointment Letter on the memorable day of 12 December, 2012 after clearing an aptitude test. We were all set to have our first experience of an IT startup culture.

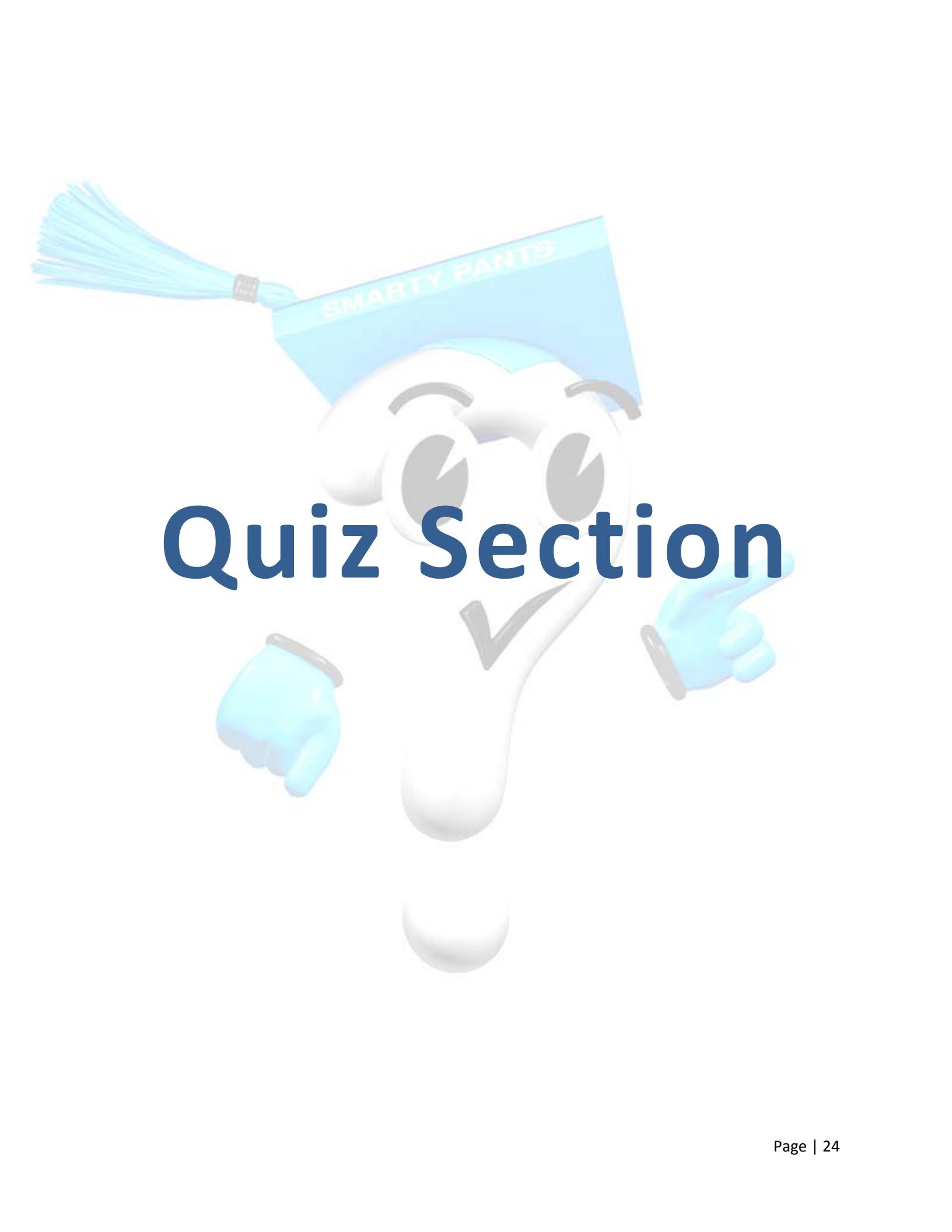
The first session was an introductory one, in which we were introduced to the professionals who were already working on the project. We were introduced to '**goCelebrate.in**' which is aimed at making celebrations effortless.

The first week of the training was devoted to learning sessions on the basics of *PHP, MySQL, JavaScript, CSS, Agile (SDLC Model)* and Magento. These sessions were really very effective since they were based on the "learn and implement model" with video tutorials, where we learnt about a concept and then implemented the same in the form of assignments before moving on to the next concept. Secondly, the open culture and the fun environment really made the whole experience a memorable one. After a week of honing our basic skills we started working on the project. We got some modules to work on. Since we were working on the '*Agile model*', we had to plan our tasks and then start working on them. Through the course of the training, we became familiar with many '*Agile*' terms like '*Iteration Planning*', '*Standup*', '*Scrum*' etc. In the daily '*Standup*' we discussed our previous day's tasks and the roadblocks (if any).

However, the most important learning for us was "*How to work in a team*". On the very first day of our training, everything was about "I" and to work for one's self but, gradually by the last day we had realized that "*It is the team that comes first*". We were shown many motivational videos during the training. One such video was from the movie "*Chak de India!*" that really made us realize the importance of team spirit. Having team lunches together on a single table used to be the most enjoyable part of the day. Each member of the group used to prepare tea for all in the evening! One of our mentors who also happened to be an alumnus of our department used to play the guitar on our request! We even celebrated the birthday of two of our friends during training period but, the icing on the cake was our outing to Saket on the last day of the training. It was an amazing experience for all of us and we hope to become a part of more such programmes in the future as well. We will surely miss this experience.

"Intellectuals solve problems; geniuses prevent them."

~ Albert Einstein



Quiz Section

TAGLINES

Guess the company names from their taglines.

1. "Invent ; Everything is Possible"
2. " Experience certainty"
3. "The power to do more"
4. "Powered by Intellect, Driven by Values"
5. "High Performance. Delivered"

TRUE/FALSE

Which of the following statements are true?

1. Steve jobs was the official photographer at the wedding of Larry Ellison & Melanie Craft.
2. The World's first traffic light was installed in London to control car traffic.
3. Dal Lake of Kashmir is the first Wi-Fi enabled lake in the country.
4. Bill Gates used to play guitar for a Seattle- based rock band called "Grown Men".

TECH TRIVIA

1. Which of the following came first- Computer Mouse, ATM Machine, Bar-Code or the Post-it-Note?
2. Which device gets its name from the onomatopoetic word for a dog's bark?
3. Name the English Writer who wrote for Charles Babbage's Analytical Engine and is often regarded as the World's first programmer.
4. Urs Holzle sent an internal memo warning that his company would be crushed if it didn't figure out its social strategy. He also suggested that new people be recruited to work on it. In response, Project emerald sea was started. What happened eventually?
5. Who is known as the father of Pentium Chips?
6. Bob Young and Marc Ewing started what in 1993 which has made significant contributions in the world of Linux?

"I have no particular talent. I am merely inquisitive."

~Albert Einstein

GUESS WHO?

There are four personalities hidden in each face in the following pictures. Identify them.



1.



2.



3.



4.

"Millions saw the apple fall, but Newton asked why."

~Bernard Baruch



SUDOKU

	9			8	6		5	
		2						
7	8		9			1	6	4
3		5				6		1
	7						3	
		3		2				
1		7						5
			6			8		

DUCS Gole toh...

...a platform to showcase your talent and build the confidence and the personality that makes a DUCSite known to everyone in the outside world.

Natasha Mittal
(M.Sc. Computer Science, 1st year)

...a place where you can learn and explore more...A platform that is capable of teaching you the art of professionalism and making you a true IT person...This is where we as students develop and enhance our technical skills.

Gunjan Gupta
(M.Sc. Computer Science, 1st year)

...where you can discover the diamond within you, even if you think that you are worthless.

Archi Mittal
(M.Sc. Computer Science, 1st year)

...a program which selects the already +, develops + to make ++, and settles the survivors first.

Divya Popli
(M.Sc. Computer Science, 1st year)

...a place which gives life to your dreams and supports your passion.

Mayank Dargan
(M.Sc. Computer Science, 1st year)

DUCS defines the creative way by which intelligent creatures merge with excellence and familiar faces become big nominees.

Kanika Basra
(M.Sc. Computer Science, 1st year)

"Ideal conversation must be an exchange of thought, and not, as many of those who worry most about their shortcomings believe, an eloquent exhibition of wit or oratory."



*Feast and Festivity
in the air!*

"BYTE INTO THIS"



Compiled by- Anika Garg (MCA 1st year)

A circular background image shows a person from the side, wearing a white shirt, focused on a laptop keyboard. The background is a light blue gradient.

Spam generates 33bn Kwhs-hours of energy every year, enough to power 2.4 million homes producing 17 million tons of CO₂.

One Google search produces about 0.2g of CO₂. But since you hardly get an answer from one search, a typical search session produces about the same amount of CO₂ as does boiling a tea kettle.

Google handles about 1 billion search queries per day, releasing some 200 tons of CO₂ per day.

Microsoft was originally named Micro-Soft. They dropped the dash in 1976.

"Did you know that nearly one in three children live apart from their biological dads? Those kids are two to three times more likely to grow up in poverty, to suffer in school, and to have health and behavioral problems."

In the 1980s, an IBM computer wasn't considered 100% compatible unless it could run the Microsoft Flight Simulator.

The average 21 year old has spent 5,000 hours playing video games, has exchanged 250,000 e-mails, instant and text messages and has spent 10,000 hours on the mobile phone.

The average computer user blinks 7 times a minute, less than half the normal rate of 20.

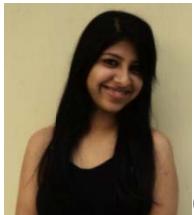
The first computer mouse was invented by Doug Engelbart in around 1964 and was made of wood.

When the CD was invented, it was decided that a CD should be long enough to hold Beethoven's Ninth Symphony at any tempo which was precisely 72 minutes.

Google uses an estimated 15 billion kWh of electricity year, more than most countries. However, Google generates a lot of its own power with solar panels.

Did you know that the fear of Friday the 13th is called friggatriskaidekaphobia?

TOP FACEBOOK TRICKS TO IMPRESS YOUR FRIENDS



Compiled by : Archi Mittal (M.Sc. Computer Science, 1st year)

Playing with Facebook is a really nice idea, you all spend lots of time on Facebook in your daily routine, but if you know some tricks below, it will add some value to daily use and will let you earn more likes and comments hence, today I am going to tell you the top 5 Facebook tricks, which are really awesome, tested by me and all are working, so there is no need to worry about them.

So here are the top 5 Facebook tricks:

1- How to post blank Status Update: If you want to post blank just type '@ [0:0:]' without quotes in your status box and hit enter, you will see images like the one given below.



2- How to post Status in Blue colour: Posting status in blue colour is a trick, which will look like you have posted any link, but this will only be a status in blue colour, but clicking over the status will redirect someone to your profile. To do this just type '@@ [0: [0:1; your status]]' without quote in your status box and hit enter. It will look like below:



3- How post someone's Profile picture in Facebook chat: This is a really cool trick through which you can impress someone and it is not that tough, to do this just type '[[username]]' in messenger during chat. Replace the username with the person's username whose picture you want to post in messenger, you can easily find the username of any person by just going onto their profile and then look on the URL box; the last few words will be the username.

4-How to post animated colourful text in Facebook chat : You can apply this cool trick to impress your friends by posting colourful letters or characters in the chat box, and for this there are special codes for each alphabet character and by using them you can make any word. The codes are given below.

[[107015582669715]] = A

[[116067591741123]] = B

"I think that people just have this core desire to express who they are. And I think that's always existed."

~Mark Zuckerberg

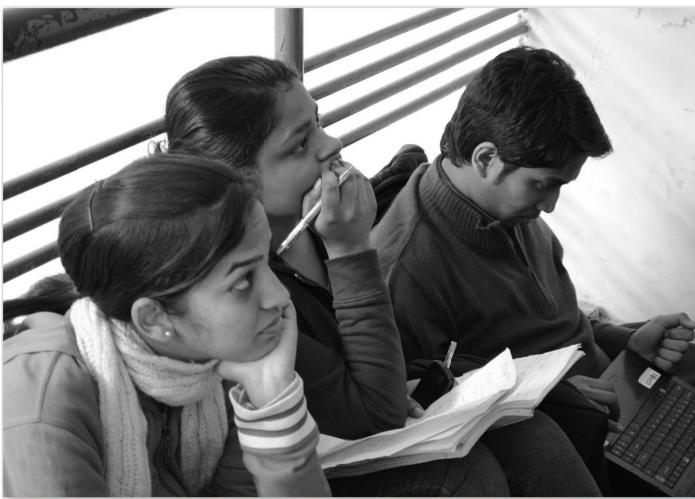
[[115602405121532]] = C
[[112542438763744]] = D
[[115430438474268]] = E
[[109225112442557]] = F
[[111532845537326]] = G
[[111356865552629]] = H
[[109294689102123]] = I
[[126362660720793]] = J
[[116651741681944]] = K
[[115807951764667]] = L
[[106596672714242]] = M
[[108634132504932]] = N
[[116564658357124]] = O
[[111669128857397]] = P
[[107061805996548]] = Q
[[106699962703083]] = R
[[115927268419031]] = S
[[112669162092780]] = T
[[108983579135532]] = U
[[107023745999320]] = V
[[106678406038354]] = W
[[116740548336581]] = X
[[112416755444217]] = Y
[[165724910215]] = Z

Please note that there should be one space between each character, so don't forget to leave a space otherwise you will find a simple code instead of colourful characters in chat box.

5-Best and last Facebook trick: '<http://facebook.com/profile.php?u=73322363>' paste this link any where, this is actually one's own profile link, whenever any user will click on this it will redirect him to his own profile, this is the best way to confuse anyone and draw attention to your posts.



"Lo! Men have become the tools of their tools"
~Henry David Thoreau



ANSWERS

TAGLINES

ANSWERS: 1. HP 2. TCS 3.DELL 4. Infosys 5. Accenture

TRUE/FALSE

ANSWERS: 1. TRUE 2. FALSE. It was for pedestrians. 3. TRUE 4. FALSE. It was Paul Allen

TECH TRIVIA

ANSWERS: 1. BAR CODE 2. WOOFER 3.LADY ADA LOVELACE 4.: Google Plus 5. VinodDham 6. Red Hat

GUESS WHO?

Answers

PICTURE 1

1. Malinga
2. Imran Khan
3. Owen Wilson
4. KalkiKoechlin

PICTURE 2

1. Indira Gandhi
2. Aishwarya Rai
3. Lionel Messi
4. Preity Zinta

PICTURE 3

1. Lady Gaga
2. Audrey Hepburn
3. Barack Obama
4. Angelina Jolie

PICTURE 4

1. Albert Einstein
2. Kajol
3. Hrithik Roshan
4. Robert Downey Jr.

Solution for Sudoku:

4	9	1	7	8	6	2	5	3
6	5	2	1	3	4	8	7	9
7	8	3	9	2	5	1	6	4
3	2	5	8	4	7	6	9	1
8	7	4	6	1	9	5	3	2
9	1	6	2	5	3	7	4	8
5	4	8	3	7	2	9	1	6
1	6	7	4	9	8	3	2	5
2	3	9	5	6	1	4	8	7