

## **IT 112: Introduction to Programming**

Dr. Manish Khare

Dr. Bakul Gohel



Introduction Lecture

# About Me

## Dr. Manish Khare

M.Sc. (Computer Science), M.Tech. (Computer Science and Engineering), PhD (Computer Science)

### Address

Faculty Block – 4

Room No. 4204

Mail: [manish\\_khare@daiict.ac.in](mailto:manish_khare@daiict.ac.in)

Phone: +91-9452081912

<https://sites.google.com/site/mkharejk/>

# About Me



**Dr. Bakul Gohel**

PhD (Bio and Brain Engineering)

Address

Faculty Block – 2

Room No. 2201

Mail: bakul\_gohel@daiict.ac.in

<https://daiict.ac.in/index.php/faculty-details/205>

# Introduction – IT112



➤ Course Name: Introduction to Programming

➤ Course Id: IT112

➤ Credits: 3(L)-0(T)-0(P)-3(C)

➤ Related Course:

- Introduction to Programming Lab (IT113)

- Credits: 0(L)-0(T)-2(P)-1(C)

# Schedule



## ➤ Lectures

- Tuesday (08:30 – 09:45)
- Friday (10:15 - 11:30)

# Platform Used for Lecture



## ➤ Cisco Webex

- Link will be sent to you one day before schedule lecture  
([https://daiict.webex.com/meet/manish\\_khare](https://daiict.webex.com/meet/manish_khare))

## ➤ For Lecture Slides and Other Reference Matter

- Google Classroom
  - Class Code: (p2ficbn)



# Autumn 2021-22 - IT112 (Introduction to Programming)

Section (A+B)

Customize

Autumn 2021-22 - IT112  
Section (A+B)

Stream

Classwork

People

Grades



Autumn 2021-22 - IT112  
Section (A+B)

Customize

Meet

Generate link

Class code

p2ficbn

Upcoming

No work due soon

View all

p2ficbn

Autumn 2021-22 - IT112 Section (A+B)

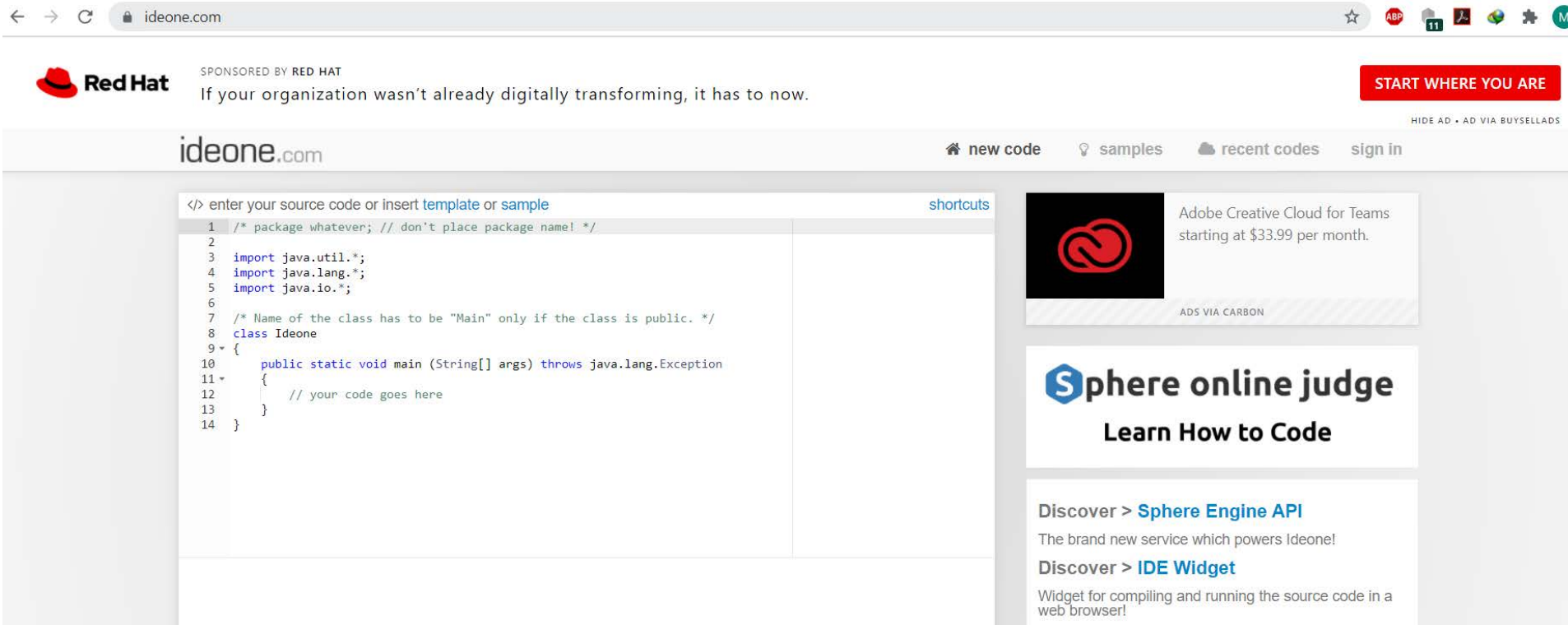
Copy invite link

Create and schedule announcements

Respond to student posts

# Platform used for in-class Exercise

 [www.ideone.com](http://www.ideone.com)



The screenshot shows the ideone.com website interface. At the top, there is a navigation bar with links for "new code", "samples", "recent codes", and "sign in". Below the navigation bar, there is a large text area for entering source code. The code area contains a Java snippet for a class named "Ideone" with a "main" method. To the right of the code area, there are several advertisements. The first advertisement is for "Adobe Creative Cloud for Teams" starting at \$33.99 per month. The second advertisement is for "Sphere online judge" with the text "Learn How to Code". The third advertisement is for "Discover > Sphere Engine API" and "Discover > IDE Widget".

Red Hat SPONSORED BY RED HAT  
If your organization wasn't already digitally transforming, it has to now.

START WHERE YOU ARE

ideone.com

new code samples recent codes sign in

<> enter your source code or insert [template](#) or [sample](#) [shortcuts](#)

```
1  /* package whatever; // don't place package name! */
2
3  import java.util.*;
4  import java.lang.*;
5  import java.io.*;
6
7  /* Name of the class has to be "Main" only if the class is public. */
8  class Ideone
9  {
10     public static void main (String[] args) throws java.lang.Exception
11     {
12         // your code goes here
13     }
14 }
```

Adobe Creative Cloud for Teams  
starting at \$33.99 per month.

ADS VIA CARBON

**Sphere online judge**  
Learn How to Code

Discover > [Sphere Engine API](#)  
The brand new service which powers Ideone!

Discover > [IDE Widget](#)  
Widget for compiling and running the source code in a web browser!



# Course Evaluation Policy – IT 112



## ➤ Evaluation Distribution:

- Mid-Semester Exam – 30%
- Mid Term Course Viva – 10%
- Final Course Viva – 10%
- Final Exam – 50%

# Suggested Books/Literatures



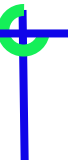
- Y. Kanetkar “Let Us C”, BPB publication
- Reema Thareja, “Programming in C”, Oxford University Press
- C The Complete Reference, Schildt, TMH

# Teaching Assistants



TBD

# Course Outline

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- 
- Introduction
  - Decision Control Structure
  - Loop Control Structure
  - Case Control Structure
  - Function
  - Pointers
  - Arrays
  - Structures
  - File Handling
  - Introduction to Object Oriented Programming

# Why Should You Take This Course?

- *“Without a strong foundation, you’ll have trouble creating anything of value.” – Erika Opperheimer*
- A deep and clear understanding of how a program runs in a computer system forms the bedrock on which you then build a successful career in software.
- This course does exactly the same – gives you crystal clear picture of what happens under the hood when a software is run.
- **Thorough programming practice.**
- No programming language is better than ‘C’ to make this bedrock rock-solid.



**You cannot be great at start of anything,  
but you have to start to be great.**

**So making a beginning is important**



Above all ...

Believe in yourself!