



**MALAD KANDIVALI EDUCATION SOCIETY'S
NAGINDAS KHANDWALA COLLEGE OF COMMERCE,
ARTS & MANAGEMENT STUDIES & SHANTABEN NAGINDAS
KHANDWALA COLLEGE OF SCIENCE
MALAD [W], MUMBAI – 64
(AUTONOMOUS)**

**(Reaccredited 'A' Grade by NAAC)
(AFFILIATED TO UNIVERSITY OF MUMBAI)
(ISO 9001:2015)**

CERTIFICATE

Name: Mr./Ms. VIVEK KIRAN PUROHIT

Roll No: 68 Programme: BSc IT/CS Semester: II

This is certified to be a bonafide record of practical works done by the above student in the college laboratory for the course **IT platforms, Tools and Practices** (Course Code: **2026UISTP**) for the partial fulfillment of Second Semester of BSc IT/CS during the academic year 2020-2021.

The journal work is the original study work that has been duly approved in the year 2020-2021 by the undersigned.

External Examiner

Garg)

Date of Examination: (College Stamp)

**Subject-In-Charge
(Ms. Sweety)**

Name : Vivek Kiran Purohit

Roll No: 68

Sr. No.	DATE	TITLE	SIGN
1.		INTRODUCTION and CONTRIBUTING TO WIKIPEDIA a) What is Wikipedia? b) Steps to Create Account on Wikipedia c) Creating Page on Wikipedia d) Edit your page	
2.		Creating account, repository on GitHub and Cloning repository in GitHub Page	
3.		BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE a) Describe Open-Source Software with Example. b) Describe Free Software with Example c) Difference between Free and Open-Source Software.	
4.		WRITING EMAIL	
5.		Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing	
6.		WRITING BLOGS	
7.		Implementing coding practices in Python using PEP8.	
8.		PRESENTATION: _____	

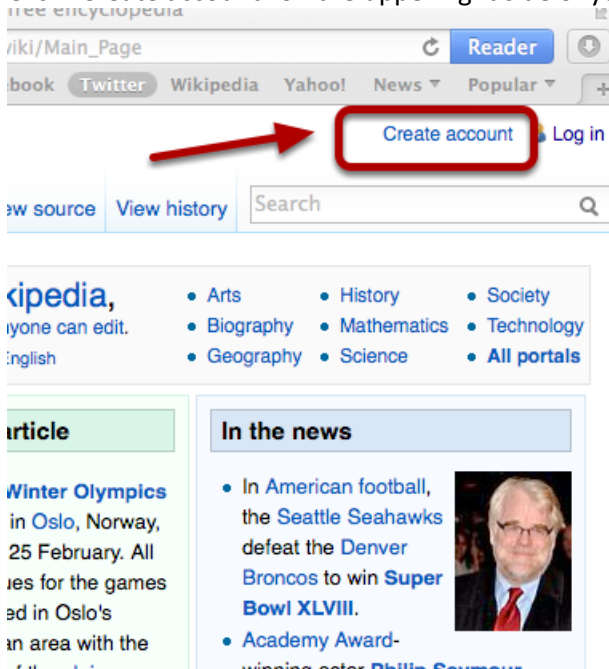
How to create an account on Wikipedia?

These are the following instructions

Go to www.wikipedia.org and choose "English"



Click "Create account" on the upper right side of your browser



Enter your account information and the captcha, and click "Create Account"

The screenshot shows the 'Create account' page on Wikipedia. The browser's address bar displays 'https://en.wikipedia.org/w/index.php?title=!' and the page title is 'Create account - Wikipedia, the free encyclopedia'. The left sidebar contains links to 'Main page', 'Contents', 'Featured content', 'Current events', 'Random article', 'Donate to Wikipedia', and 'Wikimedia Shop'. Below these are sections for 'Interaction' (Help, About Wikipedia, Community portal, Recent changes, Contact page) and 'Tools' (Upload file, Special pages, Printable version). The main content area is titled 'Create account' and includes a search bar. The registration form consists of several fields: 'Username' (with a '(help me choose)' link), 'Password', 'Confirm password', 'Email address (optional)', and a 'Security check' section. The 'Security check' section contains a CAPTCHA image showing the word 'orateoother', a 'Refresh' button, and a text input field. At the bottom of the form is a large blue 'Create your account' button. Six numbered red arrows point to the following elements: 1. Username field, 2. Password field, 3. Confirm password field, 4. Email address field, 5. CAPTCHA image, and 6. 'Create your account' button. Below the button, the text 'Wikipedia is made by people like you.' is displayed.

Create account - Wikipedia, the free encyclopedia

en.wikipedia.org/w/index.php?title=!

Create account Log in

Special page Search

Create account

Enter your information below.

Username [\(help me choose\)](#)

Enter your username

Password

Enter a password

Confirm password

Enter password again

Email address (optional)

Enter your email address

Security check

[Refresh](#)

Enter the text you see above

[Can't see the image? Request an account](#)

Create your account

Wikipedia is made by people like you.

Log in to your email and confirm your registration by clicking the link in the email.

MediaWiki Mail

January 15, 2014 12:44 PM

To: Castechtraining

Wikipedia email address confirmation

[Inbox - Exchange](#)

Hello Castechtraining,

Welcome to Wikipedia! You've joined the English-language version of the free encyclopedia that anyone can edit.

To confirm your email address, please open this URL in your browser:

<http://en.wikipedia.org/wiki/Special:ConfirmEmail/550ba3a47df074a4b5711ab7397dfd34>

This link expires at 17:43, 22 January 2014 (UTC).

Confirming your email address will allow you to:

- * reset your password via email
- * exchange emails with other Wikipedia editors
- * receive notifications about activity on Wikipedia relevant to you, such as when someone leaves you a message

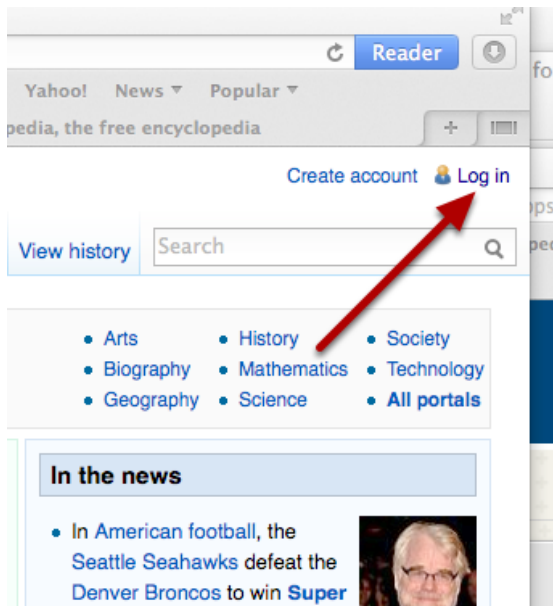
If you wish to be able to recover your account but don't want to receive other email, visit your preferences at: <http://en.wikipedia.org/wiki/Special:Preferences>

Thanks, and once again, welcome!

This email is generated automatically, and does not accept replies. If you didn't register an account on Wikipedia, feel free to disregard this message or click this link:

<http://en.wikipedia.org/wiki/Special:InvalidEmail/550ba3a47df074a4b5711ab7397dfd34>

To log in in the future, return to the main page and click "Log in" in the upper right corner of your browser



GitHub is a web-based centralized system for repositories. It used by millions of people to work on millions of projects. Although it is not a direct part of the Git project, it is very rare that one might escape it. Not only hosting the repositories but many other functions such as issue tracking, code review, etc. can be done on GitHub with GitHub Account.

Setting Up GitHub Account

Setting your GitHub account is easy and very simple. To set the account visit GitHub's official website.

The login form will appear on the same page. Fill out the form with your details to create an account on GitHub.

The screenshot shows the GitHub sign-up interface. The 'Username' field contains 'harishrajora' and has a red warning icon. Below it, a pink error message states: 'Username harishrajora is already taken. harishrajora-ui, harishrajora-eng, or harishrajora805 are available.' The 'Password' field is empty, with a note below it: 'Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)' A green 'Sign up for GitHub' button is present. At the bottom, a disclaimer reads: 'By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.'

Username

harishrajora

Username harishrajora is already taken.
harishrajora-ui, harishrajora-eng, or harishrajora805 are available.

Password

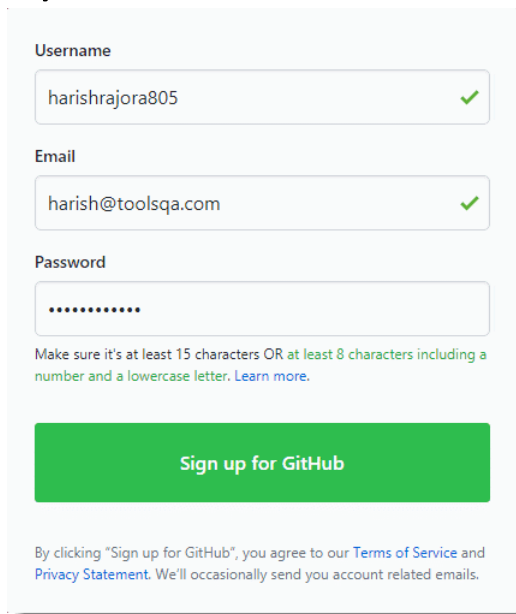
Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.

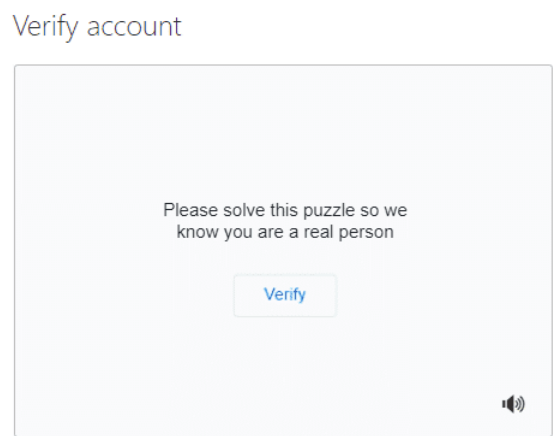
In GitHub, you will be known by your username. So, it has to be unique. This error can also be seen in the below screenshot. Here, the username harishrajora is already taken by someone else so GitHub is raising the error and suggesting some unique usernames.

Avoid those duplicate entries and fill the form with your details. The green tick will symbolize correct and unique entries



The image shows a GitHub sign-up form. It has three input fields: 'Username' with the value 'harishrajora805', 'Email' with the value 'harish@toolsqa.com', and 'Password' with masked characters. Each of the first two fields has a green checkmark icon to its right. Below the password field is a text instruction: 'Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)'. A large green button labeled 'Sign up for GitHub' is positioned below the instructions. At the bottom, there is a line of text: 'By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.'

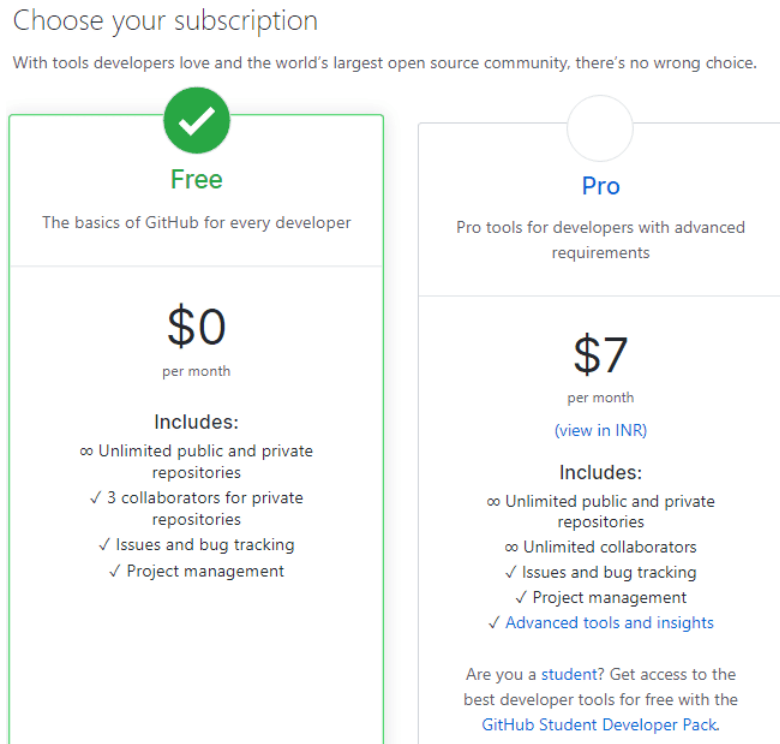
Once you press Sign up for GitHub button, you will be prompted to verify that you are not a robot.



The image shows a GitHub account verification screen. At the top, it says 'Verify account'. Below this is a large light gray box containing the text 'Please solve this puzzle so we know you are a real person'. In the center of this box is a button labeled 'Verify'. In the bottom right corner of the large box, there is a small speaker icon.

Choosing a GitHub Account Plan

Once you have verified your identity, you can choose the GitHub plan you want to subscribe for.



Tailoring your experience is a survey that GitHub takes while you create your account. It will be the next step in the process.

What is your level of programming experience?

- ☐ None—I don't program at all
- ☒ New to programming
- ☐ Somewhat experienced
- ☐ Very experienced

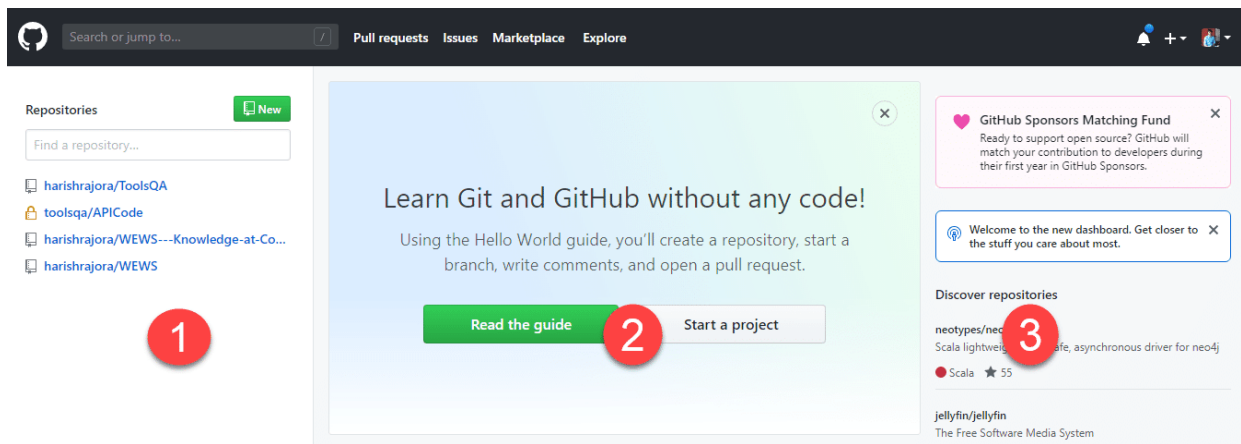
What do you plan to use GitHub for? (Select up to 3)

- ☐ Learning to code
- ☒ Learning Git and GitHub
- ☒ Host a project (repository)
- ☐ Creating a website with GitHub Pages
- ☒ Collaborating with my team
- ☐ Finding a project to contribute to
- ☐ School work / School-related project
- ☐ The GitHub API
- ☐ I don't know yet
- ☐ Other (please specify)

GitHub Account Dashboard

Now that GitHub account is all set up, you can log in through your credentials on the GitHub's website. Logging in will land on the GitHub dashboard which is personalized for everyone according to interests.

A GitHub dashboard will contain three sections.



Name: VIVEK PUROHIT

Roll no: 68 FYIT

PRACTICAL 3:-

BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE

1. Describe Open Source Software with Example.

→ Open-source software (OSS) is any computer software that's distributed with its source code available for modification. That means it usually includes a license for programmers to change the software in any way they choose: They can fix bugs, improve functions, or adapt the software to suit their own needs

While its lack of cost is a key advantage, OSS has several additional benefits:

- Its quality can be easily and greatly improved when its source code is passed around, tested, and fixed.
- It offers a valuable learning opportunity for programmers. They can apply skills to the most popular programs available today.
- It can be more secure than proprietary software because bugs are identified and fixed quickly.
- Since it is in the public domain, and constantly subject to updates, there is little chance it can become unavailable or quickly outmoded—an important plus for long-term projects.

Open-source technologies helped establish much of the internet. Furthermore, many of the programs in use every day are based on open-source technologies. Cases in point: Android OS and Apple's OS X are based on the kernel and Unix/BSD open-source technologies, respectively.

Other popular open-source software is:

- Mozilla's Firefox web browser
- Thunderbird email client
- PHP scripting language
- Python programming language
- Apache HTTP web server

2. Describe Free Software with Example

→ Free software is software that can be freely used, modified, and redistributed with only one restriction: any redistributed version of the software must be distributed with the original terms of free use, modification, and distribution (known as copyleft). The definition of free software is stipulated as part of the GNU Project and by the Free Software Foundation. Free software may be packaged and distributed for a fee; the "free" refers to the ability to reuse it, modified or unmodified, as part of another software package. As part of the ability to modify, users of free software may also have access to and study the source code.

Free software is easily confused with freeware, term describing software that can be freely downloaded and used but which may contain restrictions for modification and reuse.

Best Free software at a glance:

1. LibreOffice
2. VLC Media Player
3. GIMP
4. Shortcut
5. Brave
6. Audacity
7. KeePass
8. Thunderbird
9. FileZilla
10. Linux

3. Difference between Free and Open Source Software.

➔ Free Software:

“Free software” means software that respects users’ freedom and community. Roughly, it means that the users have the freedom to run, copy, distribute, study, change and improve the software.

The term “free software” is sometimes misunderstood—it has nothing to do with price. It is about freedom.

Open Source Software :

Open Source Software is something which you can modify as per your needs, share with others without any licensing violation burden. When we say Open Source, source code of software is available publicly with Open Source licenses like GNU (GPL) which allows you to edit source code and distribute it. Read these licenses and you will realize that these licenses are created to help us.

- Coined by the development environments around software produced by open collaboration of software developers on the internet.
- Later specified by the Open Source Initiative (OSI).
- It does not explicitly state ethical values, besides those directly associated to software development.

S.No.	Free Software:	Open Source Software :
1.	Software is an important part of people’s lives.	Software is just software. There are no ethics associated directly to it.
2.	Software freedom translates to social freedom.	Ethics are to be associated to the people not to the software.
3.	Freedom is a value that is more important than any economic advantage.	Freedom is not an absolute concept. Freedom should be allowed, not imposed.

S.No.	Free Software:	Open Source Software :
	<p>Examples: The Free Software Directory maintains a large database of free-software packages. Some of the best-known examples include the Linux kernel, the BSD and Linux operating systems, the GNU Compiler Collection and C</p>	
4.	<p>library; the MySQL relational database; the Apache web server; and the Send mail transport agent.</p>	<p>Examples: Prime examples of open-source products are the Apache HTTP Server, the e-commerce platform ecommerce, internet browsers Mozilla Firefox and Chromium (the project where the vast majority of development of the freeware Google Chrome is done) and the full office suite LibreOffice.</p>

Practical 4: Writing Email

Vivek purohit

FYIT

68

1. Set up and email address. If you do not have an email address you will need to sign up with an email provider before proceeding



Set up email



Google



Outlook, Hotmail, and Live



Yahoo

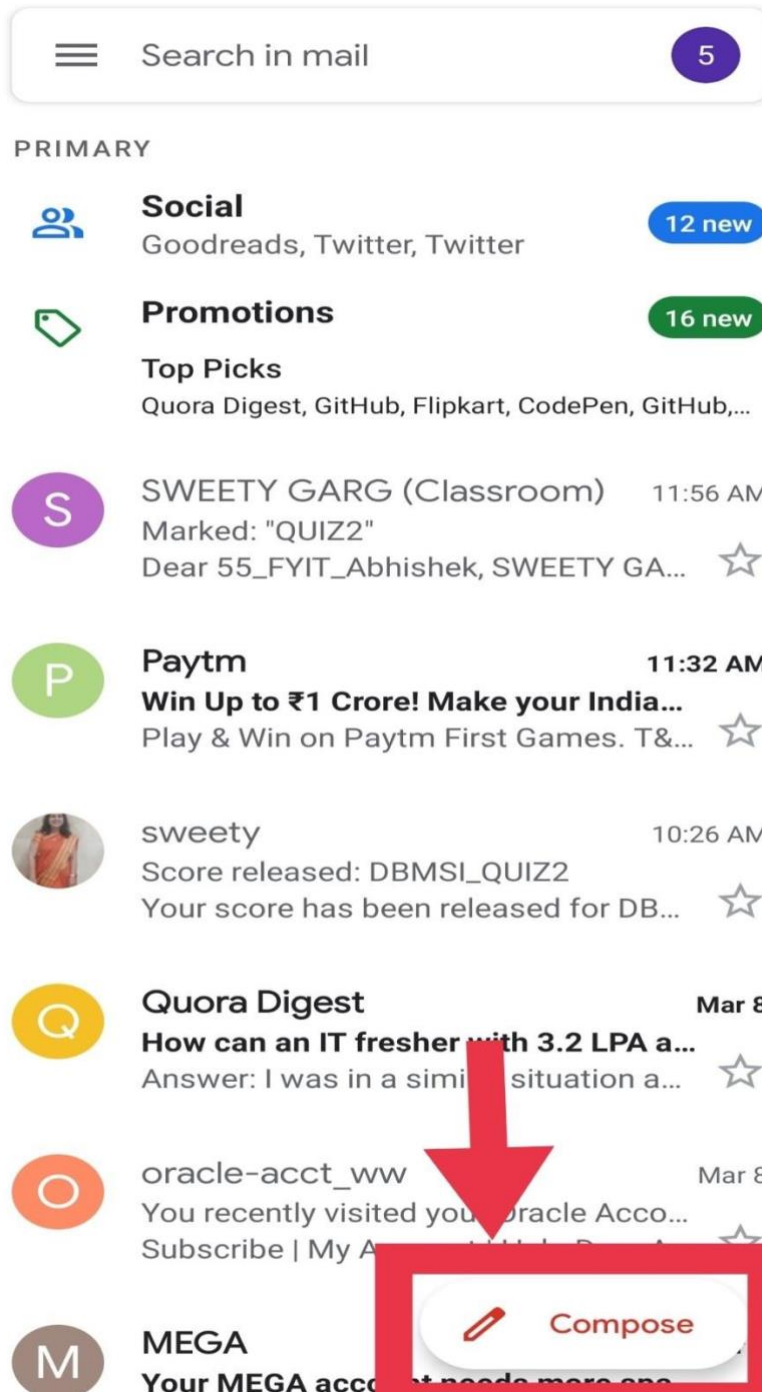


Exchange and Office 365







Other



2. Click on “compose” or “new”. Before you can write an email, you will need to open a new, blank message box to write your email.






3. List the recipients email address. You do not need to list your own email address, but you do need to specify the email address of the person or people u intend to send the email to


← Compose   



From palabhishek078@gmail.com 

To  ombudsman@airtel.in 

4. Include an informative subject. Every email service will let you type a subject or title for your email in the “subject” box.

← Compose   

From palabhishek078@gmail.com 

To  ombudsman@airtel.in 

Complaint regarding poor internet connectivity |

5. Write the body of your email. The body of your email should be written in the large text box

Respected sir

With due respect I am writing this email to inform you that my internet connectivity is very poor and I am not able to attend my lectures from past 4-5 days. I am facing trouble as my exams are near and my most of the work is done via online mode and for that I need a proper internet connection.

I hope you'll look into this matter and do the needful at the earliest to fix the internet connectivity problem as soon as possible.

below the subject line

6. Hit The “send” button. After you finish typing your email review It to verify that there are no spelling or grammar mistakes and that the issue clearly addresses the matter you wanted to bring up



Compose



From palabhishek078@gmail.com



To



ombudsman@airtel.in



Complaint regarding poor internet connectivity

Respected sir

With due respect I am writing this email to inform you that my internet connectivity is very poor and I am not able to attend my lectures from past 4-5 days. I am facing trouble as my exams are near and my most of the work is done via online mode and for that I need a proper internet connection.

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