Write and Execute any 3 questions out of 4 questions

Question 1:

Question 2:

Write any 10 below commands

1. Create a new directory with the name *COL100*
2. Change the current directory to *COL100*.
3. In this directory, create another folder, called as *Lab0*.
4. Change the current directory to *Lab0*.
5. Create a text file *me.txt* using gedit (or any text editor) and write your name and entry number in it. Save and close it.
6. Copy the contents of *me.txt* to *mycopy.txt* using
7. Open *mycopy.txt* using gedit(or any text editor) and verify that it is a copyof *me.txt*. Close the file
8. Rename *mycopy.txt* as *stillme.txt*
9. Check if the file has been renamed by listing the contents
10. Move out of *COL100* using cd .. twice.
11. Copy the directory hierarchy *COL100* to *COL100copy*
12. Check the contents of the folder *COL100copy* by going to the folder and then listing the contents
13. Go out of the folder (cd ..) and delete the whole directory COL100copy

Question 3:

Latex Article Example

Exam set 0

Write your ID

A CSE ITWORKSHOP Lab External

September 25, 2022

Remember to modify the information above.

September 25, 2022

The following will give you an overview of what you can do with this template.

Problem 1

Type your problem here.
Personally I recommend Mathpix (https://mathpix.com/), which can easily export your ProblemBook.pdf to LaTeX code.

Solution. Write your solution here.
Example of equations. $x + 1 = 2$. Or

$$x - 1 = 0$$

Example of a list of equations.

$$x = 1$$
$$y = 2$$

Example of a matrix.

$$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

Example of a lemma.

Lemma. *This is a lemma.*

Example of a proof.

Proof. Write your proof here. □

Example of including a picture.

Example of referring to a piece of code.

```
1 print("Hello World!")
```

Example of a table.

	Mean	SD
Fall 2077	7.046512	1.714552
Fall 1977	9.102941	1.568919

Overall, this is a quite basic template for assignments, and above are only some basic features. I included enough packages and set a few environments. You may modify them or add features to fit your personal preference. Enjoy using it!

Question:04

Theme:Warsaw

How to Get Rid of Ghost

Mathematics Conference for the Mysterious and Magical

Mr. Rajini Kanth

September 26, 2022

My motivation in giving this talk is to get a Ph.D. . . .

Here is my definition...

Definition (Ph.D.)

A Ph.D. is something you sweat and cry for.

Example

I studied so hard for my qualifying exam I replaced my childhood memories with an entire chapter of Hartshorne's *Algebraic Geometry*.

Theorem (D.)

For all n, we have $n^2 = n \cdot n$.

Proof. With massive loss of generality, let $n = 1$. Then we have

$$1 = 1^2 = 1 \cdot 1 = 1$$

Therefore by overwhelming hope, it must always be true. □

Most algebra you need to be true is true.

Corollary

For all $n, m \in \mathbb{N}$, $(n+m)^2 = n^2 + m^2$.

1. Bleach is mostly water.

1. Bleach is mostly water.
2. We are mostly water.

1. Bleach is mostly water.
2. We are mostly water.
3. Therefore, we are bleach.

Now we pause for the big reveal...

1. Bleach is mostly water.
2. We are mostly water.
3. Therefore, we are bleach.

Now we pause for the big reveal…

- I am clearly a master of logic.
- Masters of logic get Ph.D's.
- I have earned this.

Finally! Some Math!

Here is some Math: $\int_1^\alpha \frac{x^2}{\sin x^2}\, dx$ and $\sum i^2$.

But you could make this Math big inline with 'displaystyle':
$\displaystyle\int_1^\alpha \frac{x^2}{\sin x^2}\, dx$ and $\displaystyle\sum i^2$.

And even more Math:

$$\oint \vec{\nabla} \times \vec{F}\, dV = \sum_{n=1}^{\infty} \overline{p} \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

Ph.D. plz...

Questions?