CS641
Modern Cryptology
Indian Institute of Technology, Kanpur

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Mid-Sem
Exam

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Question 1

Your question goes here.

Solution

Your solution goes here. If your want to state a theorem, the do it in the following way -

Theorem 1.1. For all natural numbers n, $\sum_{i=1}^{n} i = n(n+1)/2$.

Proof. We will induct over n to prove the theorem. When $n = 1$ then the statement is vacuously true. Let the statement be true for $(n-1)$. Then,

$$\sum_{i=1}^{n} i = \sum_{i=1}^{n-1} i + n \tag{1.2}$$

$$= \frac{(n-1)n}{2} + (n) = \frac{n(n+1)}{2}. \tag{1.3}$$

□

Explore the *macro.tex* for more such typesetting like claims, propositions, proof sketch etc. You could define your own as well. If labeled properly, you could refer theorems like Theorem 1.1 or equations like Equation 1.3.
Reference to a book or a paper in your assignment, then do the following.

1. Find a Bibtex entry using scholar.google.com and then add it to *./bib/references.bib*.
2. Use the *Key* to reference it like [RK12].

References

[RK12] Kenneth H Rosen and Kamala Krithivasan. *Discrete mathematics and its applications: with combinatorics and graph theory*. Tata McGraw-Hill Education, 2012.