CS201
Mathematics For Computer Science
Indian Institute of Technology, Kanpur

Group Number: 261
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Assignment 1

Date of Submission:

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 vaccously 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.