Soham Chatterjee Email: sohamc@cmi.ac.in Course: Algebra and Computation	<b>Assignment - 1</b> Roll: BMC202175 Date: March 5, 2024
<b>Problem 1</b> Problem Set 1: P5 For a prime $p$ and a positive integer $e$ , prove that $\mathbb{Z}_{p^e}^*$ is cyclic.	
Solution:	
<b>Problem 2</b> Problem Set 1: P6 For a prime $p$ and a positive integer $e$ , prove that $\mathbb{Z}_{p^e}^*$ is cyclic.	
Solution:	
<b>Problem 3</b> Problem Set 1: P7 For a prime $p$ and a positive integer $e$ , prove that $\mathbb{Z}_{p^e}^*$ is cyclic.	
Solution:	
<b>Problem 4</b> Problem Set 1: P13 For a prime $p$ and a positive integer $e$ , prove that $\mathbb{Z}_{p^e}^*$ is cyclic.	
Solution:	
<b>Problem 5</b> Problem Set 1: P14  For a prime $p$ and a positive integer $e$ , prove that $\mathbb{Z}_{p^e}^*$ is cyclic.	
Solution:	