



# CS@SC Summer Camps

## Python Level 2 Syllabus

| Session/Link      | Topic              | Programs   | Page |
|-------------------|--------------------|--|------|
| <b>Session 1</b>  | Review of Level 1  | Rules for the Class<br>Ice Breaker<br>TA Introductions<br>repl.it Setup<br>Diamond<br>Sum of Range | 2    |
| <b>Session 2</b>  | String Processing  | Ice Breaker<br>Pig Elvish<br>Caesar Cipher   | 8    |
| <b>Session 3</b>  | String Methods     | Ice Breaker<br>Superhero<br>Atbash Cipher  | 11   |
| <b>Session 4</b>  | Lists Part 1       | Ice Breaker<br>Sentence Generator<br>Life Story  | 14   |
| <b>Session 5</b>  | Lists Part 2       | Ice Breaker<br>Book List<br>Date   | 17   |
| <b>Session 6</b>  | Strings and Lists  | Ice Breaker<br>Anagrams<br>Palindrome  | 20   |
| <b>Session 7</b>  | Calling Functions  | Ice Breaker<br>GCD<br>Shuffled Word  | 23   |
| <b>Session 8</b>  | Creating Functions | Ice Breaker<br>Temperature Converter<br>Print Shapes   | 26   |
| <b>Session 9</b>  | Return Values      | Ice Breaker<br>Rock-Paper-Scissors<br>Rock-Paper-Scissors Game                                     | 29   |
| <b>Session 10</b> | Parameters         | Ice Breaker<br>Roll Dice<br>Roll Dice Game   | 32   |