

## Explanation of Approach

The main method takes the topic name from the command line if there are any command-line arguments given by the user. If not, it prompts the user to enter a topic. If the topic name is given in command-line, the program sees the space separated words as different arguments. The main method then converts all these arguments into a single string to obtain the actual topic name entered by the user. It then calls the generateURL method to generate the Wikipedia URL based on the topic entered by the user. Wikipedia uses a certain standard to represent special characters in its URLs. For example " "(space) is represented by either " \_ " or "%20". So, the generateURL method examines the topic for special characters and replaces them with appropriate strings and then appends it to the Wikipedia base URL

<https://en.wikipedia.org/w/api.php?format=json&action=query&prop=extracts&exintro=&explaintext=&titles=>

Once the URL is generated the JSON object is fetched from this URL and is parsed to obtain "extract" from the object. The JSON object received from Wikipedia needs to be parsed to obtain "extract". The received object here consists of nested JSON objects. So each of these objects are extracted before extracting the desired "extract". And then the "extract" is printed to the console.