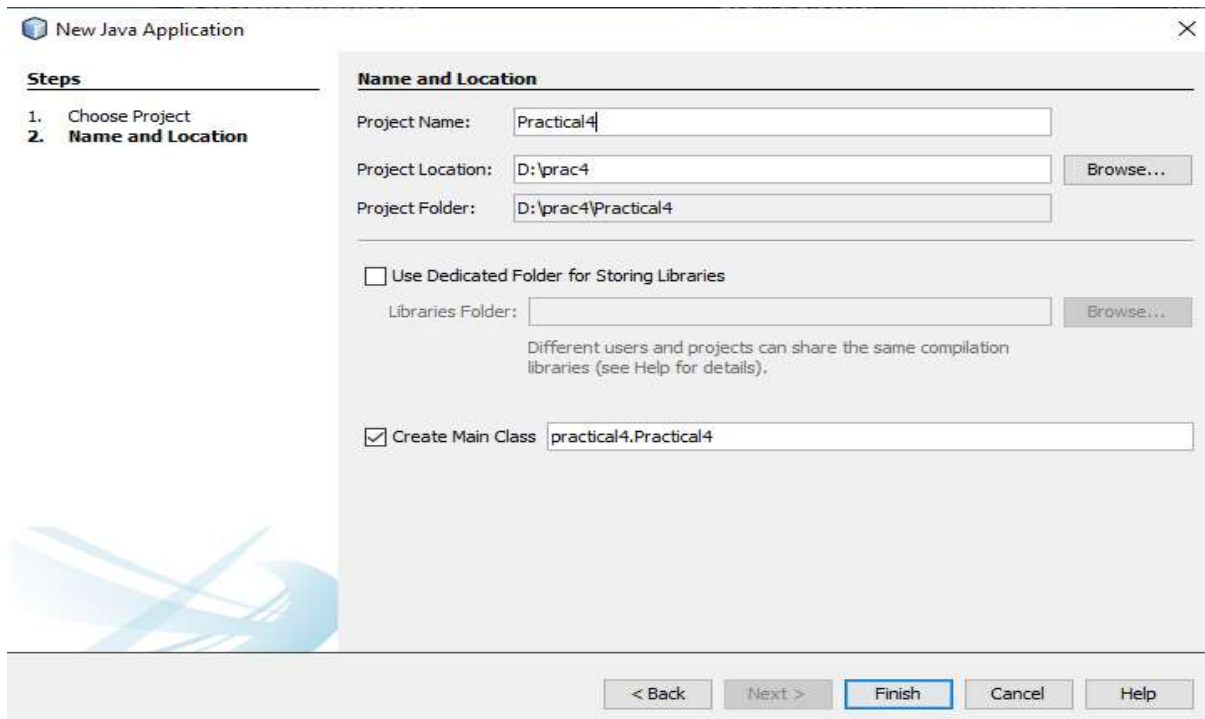
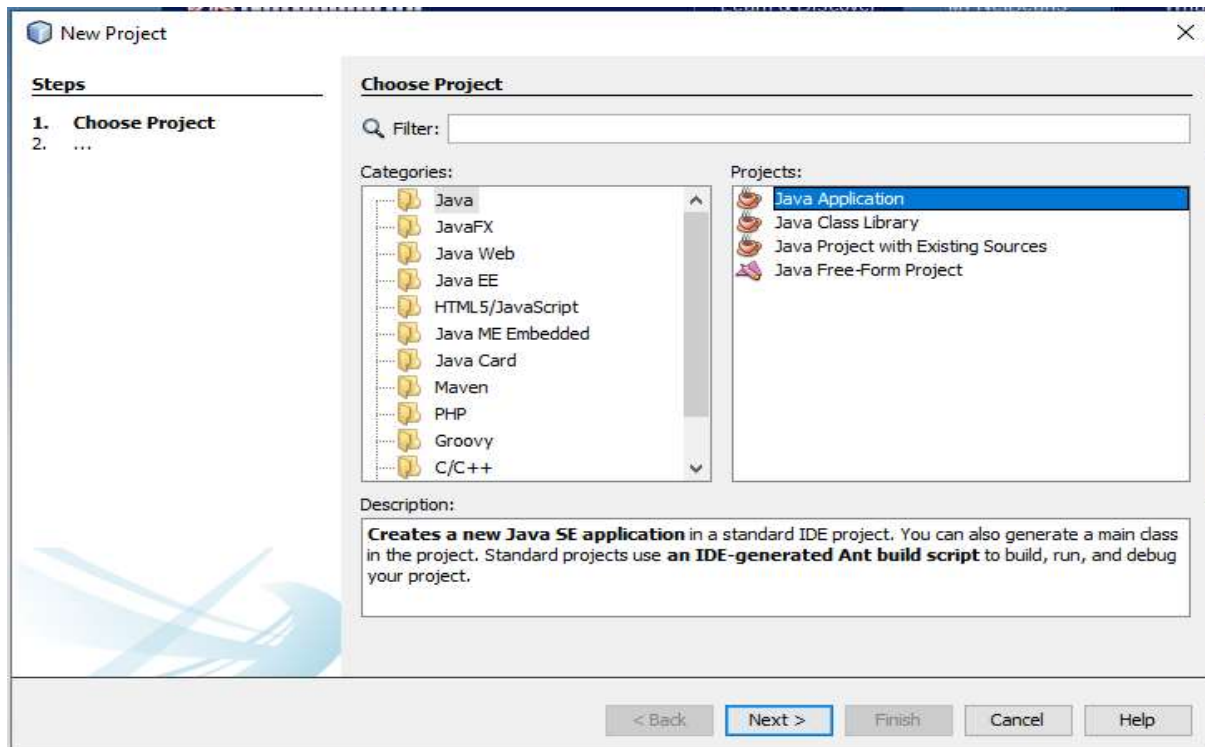


## Practical No.4

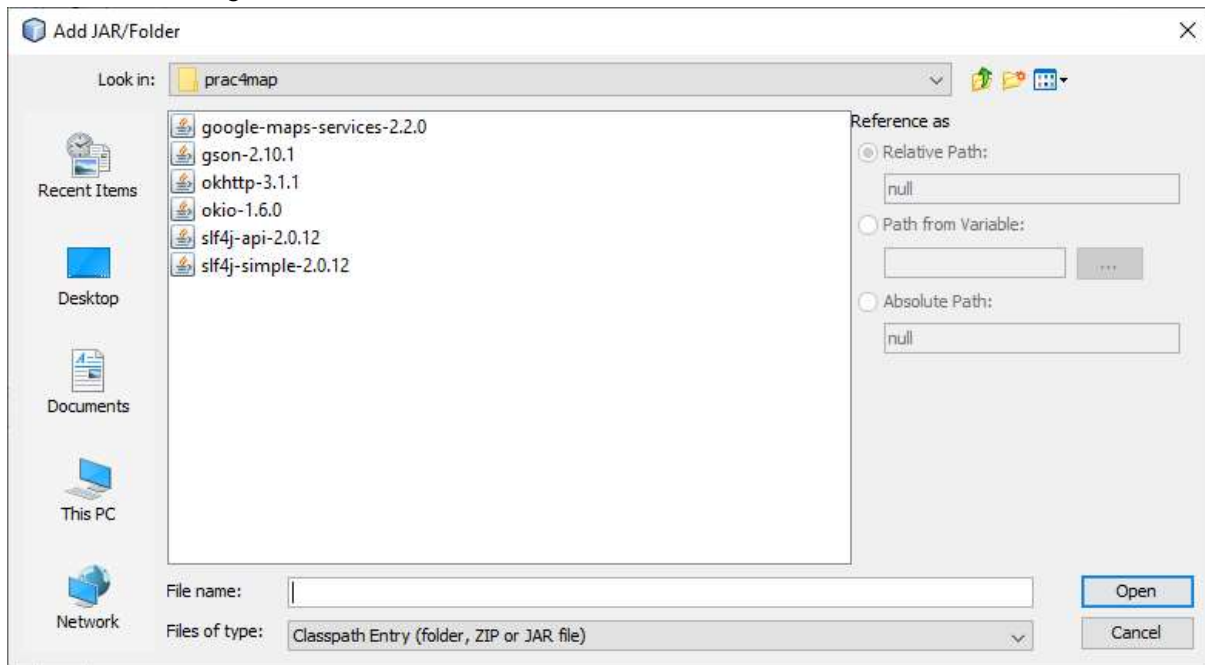
Aim:- Develop application to consume Google's search/Google's Map RESTful Web service.

Steps:

Create java application in Netbeans.



Add the following JAR folders.



And write the below code:

```
/*
```

```
* To change this license header, choose License Headers in Project Properties.
```

```
* To change this template file, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
package practical;
```

```
import com.google.gson.Gson;
```

```
import com.google.gson.GsonBuilder;
```

```
import com.google.maps.GeoApiContext;
```

```
import com.google.maps.GeocodingApi;
```

```
import com.google.maps.errors.ApiException;
```

```
import com.google.maps.model.GeocodingResult;
```

```
import java.io.IOException;
```

```
import java.util.logging.Level;
```

```
import java.util.logging.Logger;
```

```
/**
 *
 * @author student
 */

public class Practical {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
        test();
    }

    public static void test()
    {
        GeoApiContext context = new
        GeoApiContext.Builder().apiKey("AIzaSyBZrasJ4Xb1R7UI52XSoG2yXA4WHUhtJP8").build();

        GeocodingResult[] results;

        try {
            results = GeocodingApi.geocode(context,"Mumbai").await();

            Gson gson = new GsonBuilder().setPrettyPrinting().create();
            System.out.println(gson.toJson(results[0].addressComponents));
        } catch (ApiException ex) {
            Logger.getLogger(Practical.class.getName()).log(Level.SEVERE, null, ex);
        } catch (InterruptedException ex) {
```

```
        Logger.getLogger(Practical.class.getName()).log(Level.SEVERE, null, ex);
    } catch (IOException ex) {
        Logger.getLogger(Practical.class.getName()).log(Level.SEVERE, null, ex);
    }

    // Invoke .shutdown() after your application is done making requests
    context.shutdown();

}

}
```

Clean and Build

Run

Output :-

```
Output - Practical (run) X
run:
[
  {
    "longName": "Mumbai",
    "shortName": "Mumbai",
    "types": [
      "LOCALITY",
      "POLITICAL"
    ]
  },
  {
    "longName": "Mumbai City",
    "shortName": "Mumbai City",
    "types": [
      "ADMINISTRATIVE_AREA_LEVEL_3",
      "POLITICAL"
    ]
  },
  {
    "longName": "Konkan Division",
    "shortName": "Konkan Division",
    "types": [
      "ADMINISTRATIVE_AREA_LEVEL_2",
      "POLITICAL"
    ]
  },
  {
    "longName": "Maharashtra",
    "shortName": "MH",
    "types": [
      "ADMINISTRATIVE_AREA_LEVEL_1",
      "POLITICAL"
    ]
  },
  {
    "longName": "India",
    "shortName": "IN",
    "types": [
      "COUNTRY",
      "POLITICAL"
    ]
  }
]
BUILD SUCCESSFUL (total time: 1 second)
```