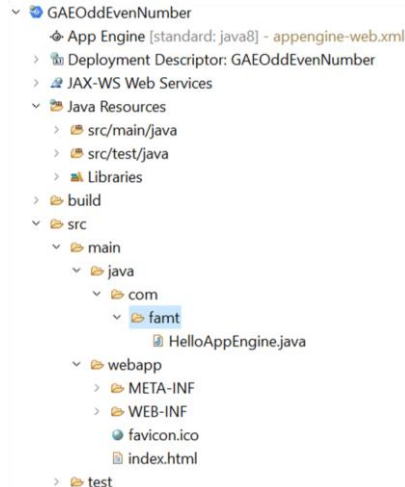


Solution to the Exercise:

1. Write a java program using Google App Engine for checking entered number is Odd or Even.
Project Explorer is as follows –



Code for index.html –

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
  <head>
    <meta http-equiv="content-type" content="application/xhtml+xml; charset=UTF-8" />
    <title>Odd Even Number Test</title>
  </head>

  <body>
    <h1>Welcome to Odd Even Number Test Page</h1>

    <form method="get" action="/hello">
      Enter a Number <input type="text" name="num">
      <button>Submit</button>
    </form>
  </body>
</html>
```

Code for HelloAppEngine.java –

```
package com.famt;

import java.io.IOException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest; import
javax.servlet.http.HttpServletResponse;

@WebServlet(
    name = "HelloAppEngine",
    urlPatterns = {"/hello"}
)
public class HelloAppEngine extends HttpServlet {
    private static final long serialVersionUID = 1L;

    @Override
    public void doGet(HttpServletRequest request, HttpServletResponse response)
    throws IOException {

        response.setContentType("text/plain");
        response.setCharacterEncoding("UTF-8");
```

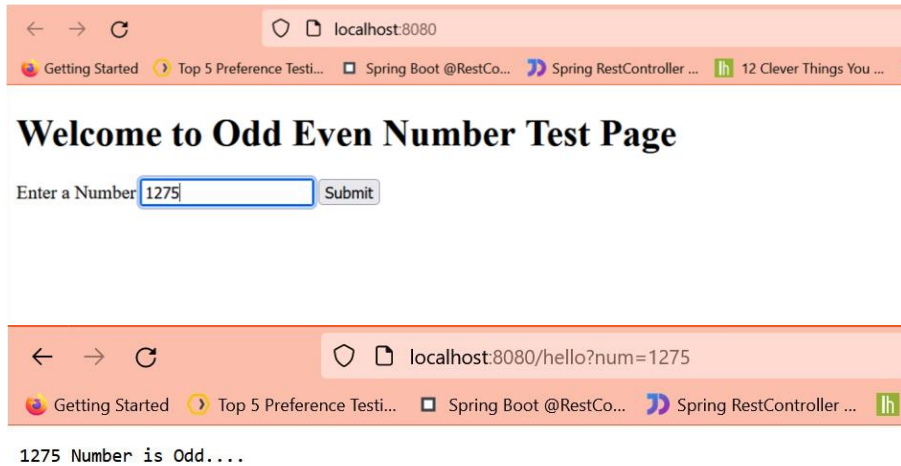
```

String param = request.getParameter("num");
response.getWriter().print(param);

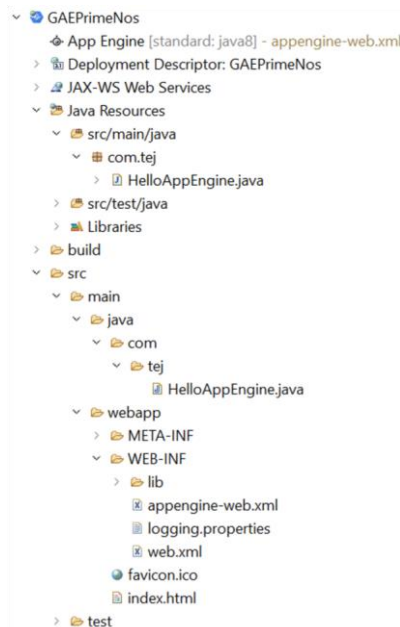
int testNum = Integer.parseInt(param);
if(testNum%2 == 0)
    response.getWriter().print(" Number is Even....");
else
    response.getWriter().print(" Number is Odd....");
}
}

```

Output of the Program –



2. Write a java program using Google App Engine for checking entered number is Prime or not. Project Explorer is as follows –



Code for index.html –

```
<!DOCTYPE html>
```

```

<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
  <head>
    <meta http-equiv="content-type" content="application/xhtml+xml; charset=UTF-8" />
    <title>Hello App Engine</title>
  </head>

  <body>
    <h1>App Engine Program for Checking number is Prime Number or not.</h1>
    <form method="get" action="/hello"> Enter a Number:
      <input type="text" name="numTxt">
      <p></p>
      <button>Submit</button>
    </form>
  </body>
</html>

```

Code for HelloAppEngine.java –
package com.tej;

```

import java.io.IOException; import
java.io.PrintWriter; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest; import
javax.servlet.http.HttpServletResponse;

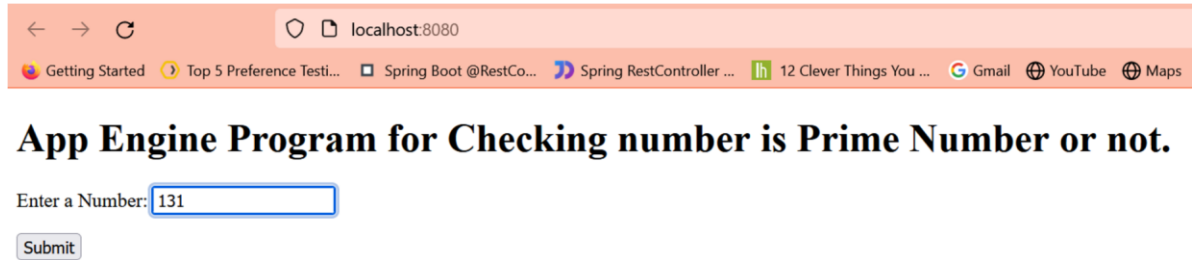
@WebServlet(      name = "HelloAppEngine",
urlPatterns = {"/hello"} ) public class HelloAppEngine
extends HttpServlet { private static final long
serialVersionUID = 1L;

    @Override public void doGet(HttpServletRequest request, HttpServletResponse
response) throws IOException {
        response.setContentType("text/plain");
        response.setCharacterEncoding("UTF-8");
        PrintWriter out = response.getWriter();
        boolean flag = true;
        String txtParam =
            request.getParameter("numTxt");
        out.println("Number is: " + txtParam); int num =
            Integer.parseInt(txtParam); for(int i=2;
            i<Math.sqrt(num); i++) { if(num%i == 0) { flag =
            false; break;
                }
            }

        if(flag == true) out.println(num + " is Prime
no."); else out.println(num + " is NOT Prime
no.");
    }
}

```

Output of the Program –

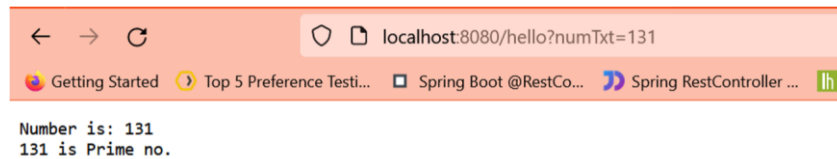


← → ↻ localhost:8080

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App Engine Program for Checking number is Prime Number or not.

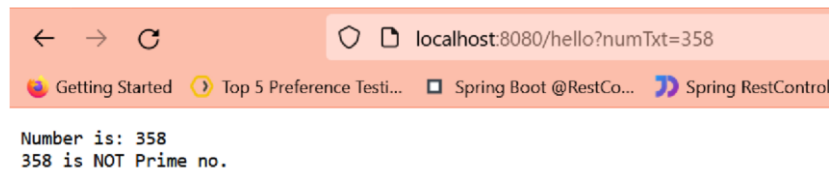
Enter a Number:



← → ↻ localhost:8080/hello?numTxt=131

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Number is: 131
131 is Prime no.



← → ↻ localhost:8080/hello?numTxt=358

Getting Started Top 5 Preference Testi... Spring Boot @RestCo... Spring RestControl

Number is: 358
358 is NOT Prime no.