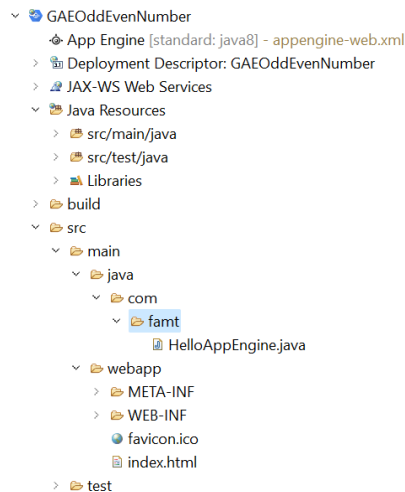


Solution to the Exercise:

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);

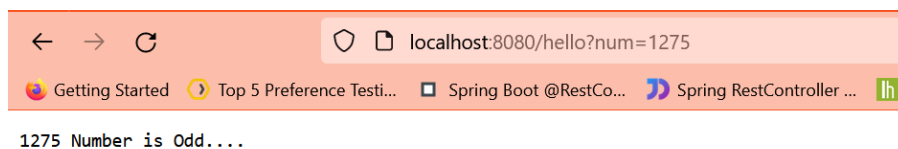
int testNum = Integer.parseInt(param);
if(testNum%2 == 0)
    response.getWriter().print(" Number is Even....");
else
    response.getWriter().print(" Number is Odd....");
}
}

```

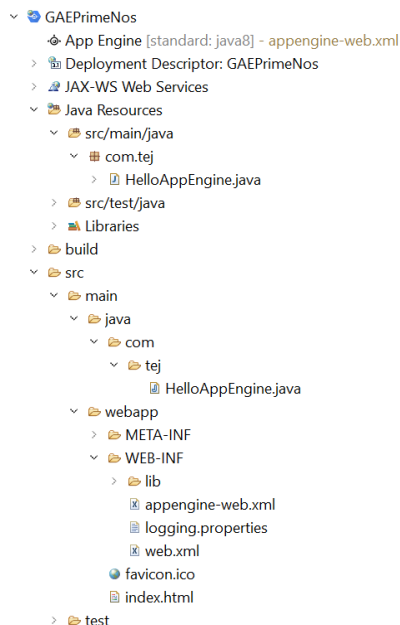
Output of the Program –



Enter a Number



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 –



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

Enter a Number:

