Harness Home Assignment  
Recording Link: Humanshu Arora <https://screenrec.com/share/OveVPy7YHK>

Task 1  
1. I already had the Java environment on my laptop because I worked with the basics of java in my second year.

2. To install bazel I used the documentation at the official website(<https://bazel.build/>).  
  
Task 2

1. To create a simple RESTful web service in Java, I utilized the Java HTTP server package to set up an HTTP server that listens for incoming RESTful requests.  
2. To run this service, use the following API:

URL: <http://localhost:8080/hello>

Query Parameters:

Name: Your name

Interests: A comma-separated list of interests, e.g., "Interest1, Interest2”

For example:<http://localhost:8080/hello?name=John&interests=Cooking,Yoga>

Task 3

1. To create a unit test for the "hello" function, I employed the JUnit testing framework, a widely used and robust tool for testing Java code.  
  
Task 4

1. To compile the code using Bazel, I utilized the following command:

bazel build //:target\_name

In this command, bazel is the build tool, build is the action to build the code, and //:target\_name represents the Bazel target you want to build. Bazel uses targets to specify which part of your codebase should be built.  
  
Task 5

1. To run tests using Bazel, I executed the following command:

bazel test //:target\_name

To run tests using Bazel, I executed the following command: bash Copy code bazel test //:target\_name in this command, bazel is the build tool, test is the action to run tests, and //:target\_name represents the Bazel target for which you want to execute tests.

Task 6  
1. To execute a Bazel target using the bazel, I used the following:

bazel run //:target\_name

With this command, bazel is the build tool, run is the action to execute the target, and //:target\_name represents the Bazel target you want to run. This command allows you to launch the specified target, such as a Java binary or any other executable, using Bazel.

Task 7

1. To create the runnable jar first I ran the command: bazel build "target\_name\_deploy.jar"

2. And then I ran the command: java -jar bazel-bin/target\_name\_deploy.jar

These commands will start my service via the runnable jar.