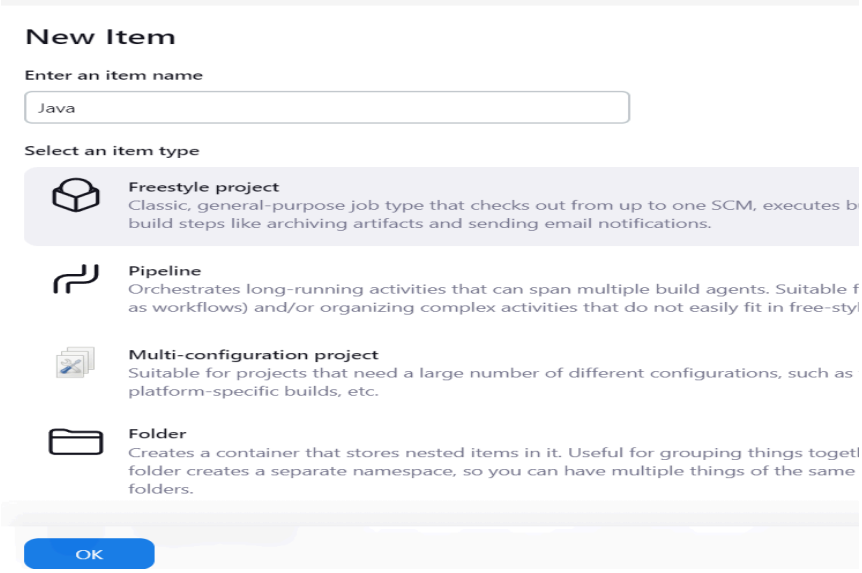
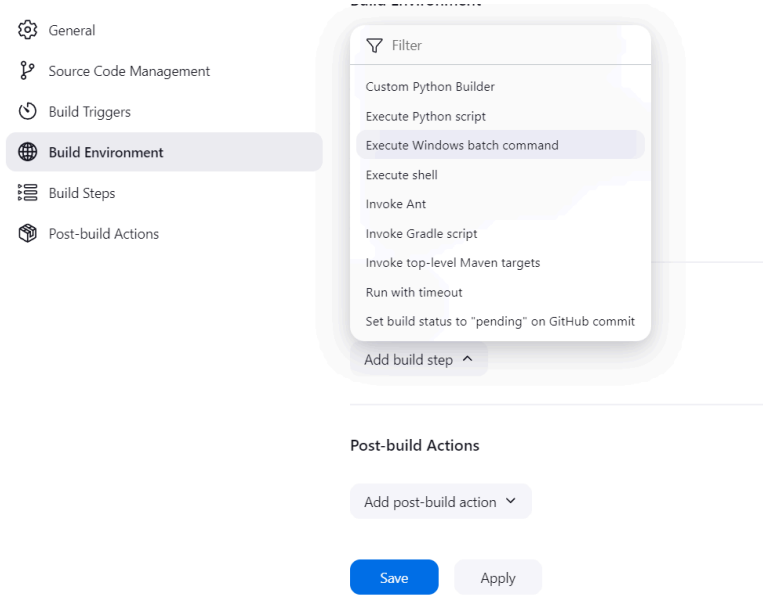
Jenkins

Step 1: To run a simple JAVA code
Create a New Jenkins Job
Go to the Jenkins dashboard and click **New Item**.
Choose **Freestyle Project** and give it a name, for example “Java”
Click **OK** to create the job.



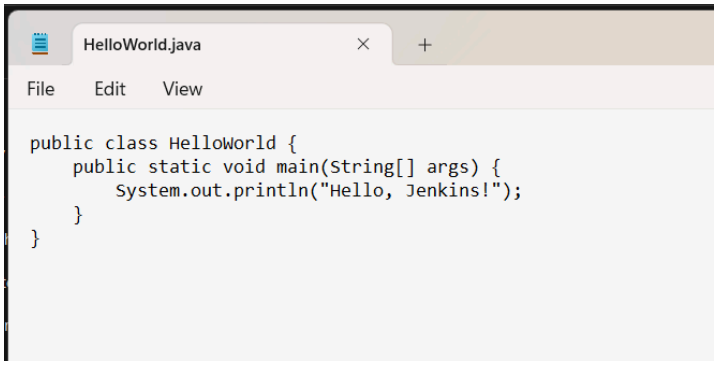
Step 2:
Go to build environment section click on add build step click on “execute windows bash command”

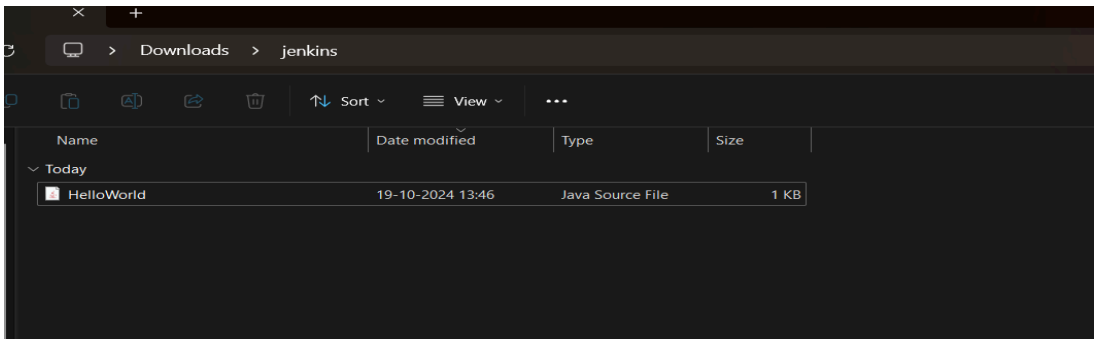


Step 3: Write a Simple Java Program
Create a file in ur device
Write the below code in it

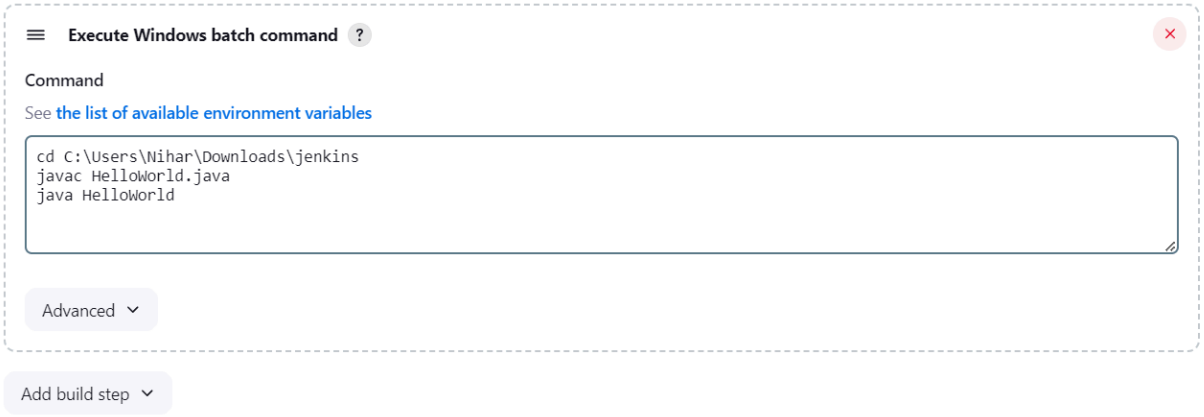
```
public class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Hello, Jenkins!");
    }
}
```

Save this as `HelloWorld.java` on your local machine.



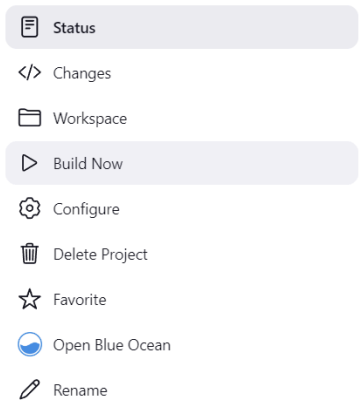


Step 4: To run the code



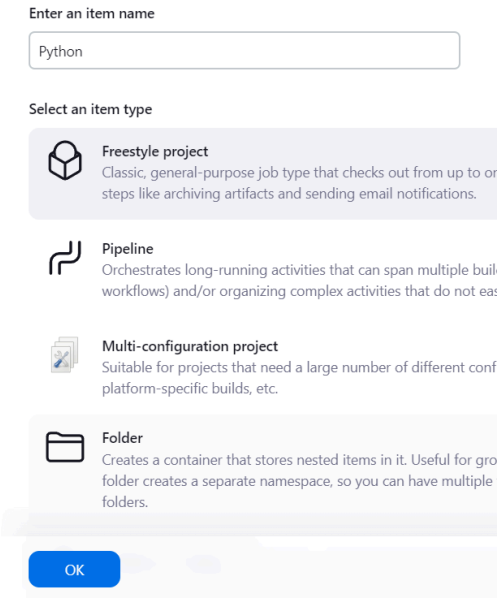
Give the location of your file and run the java file
And Save the project

Step 5: Build the project
Click on build now

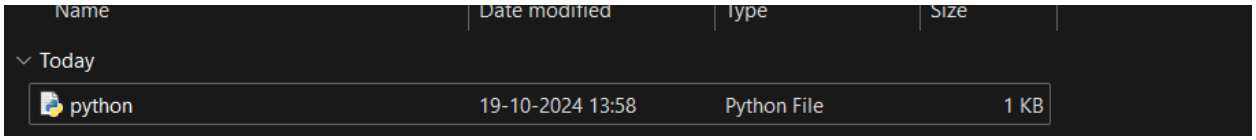


Click on the build program #1
And then click on the console output for the final output of ur java program

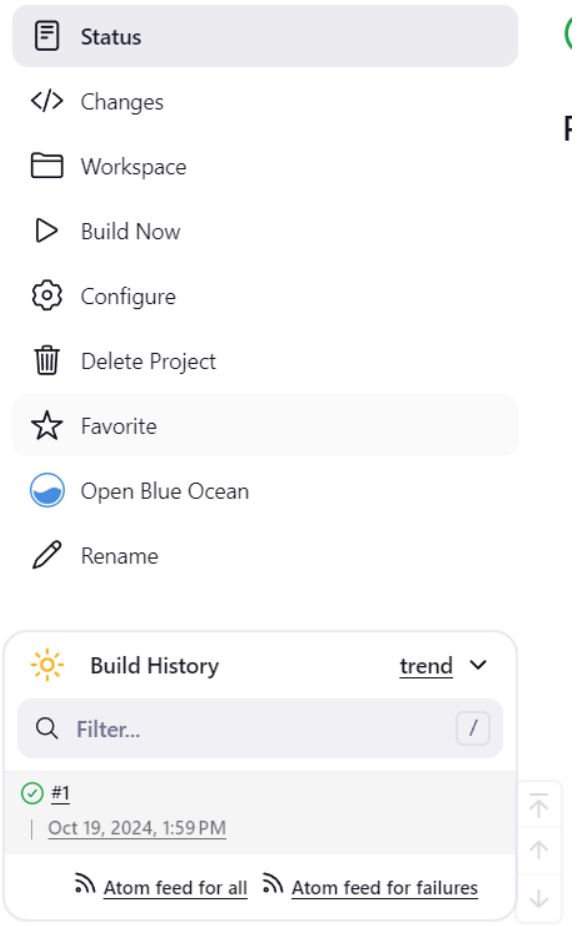
For executing Python program follow the same steps
Create a project name it keep it freestyle project



Create a file in ur local device write a python code in it save it with the python extension

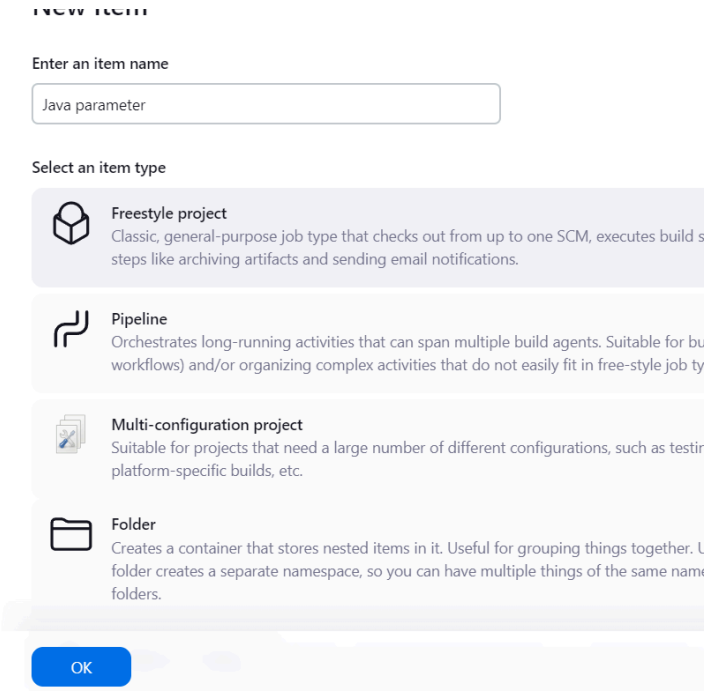


Apply and save it
Click on build now

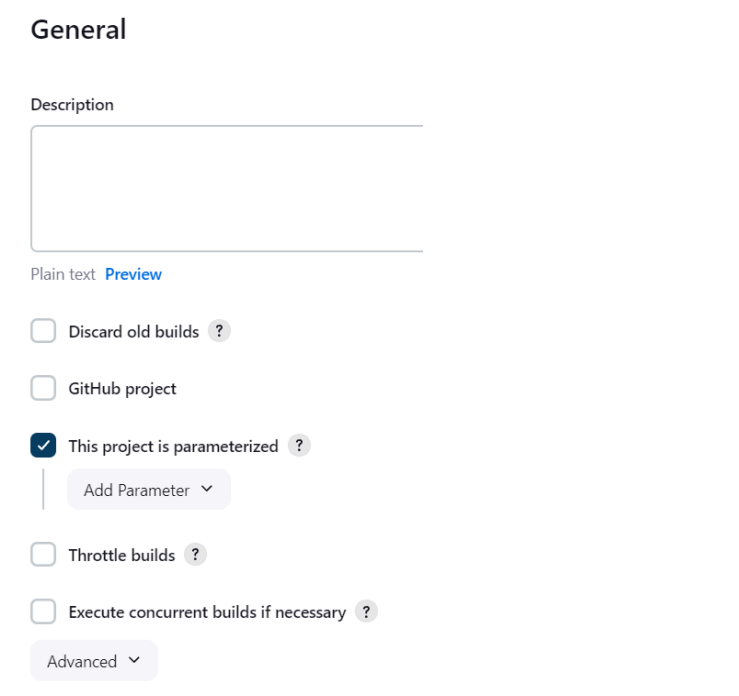


Open the #1 build
Click on console output

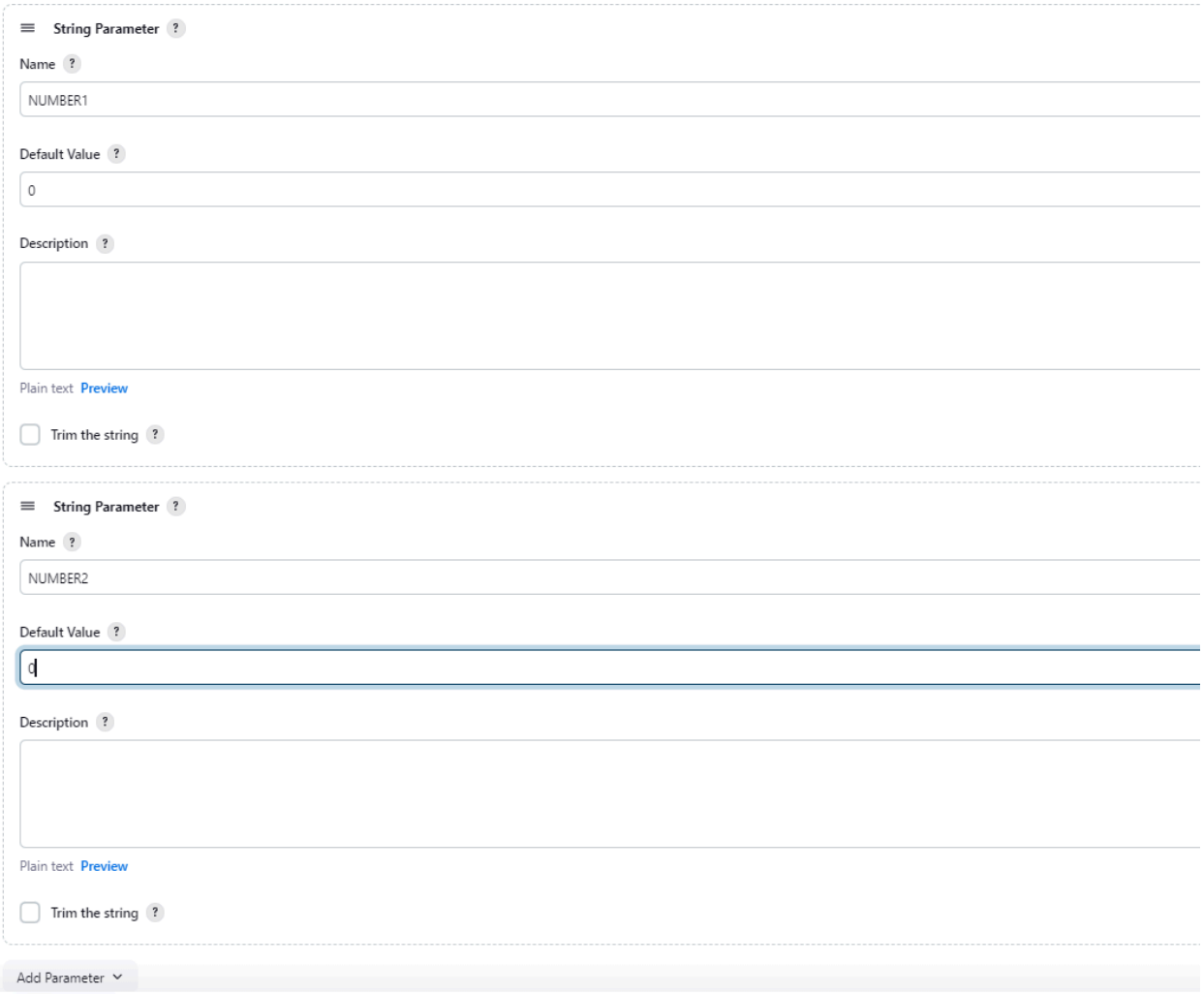
For running a parameterized java code on jenkins
Step 1:Create a new project name it keep it as a free style project



Step 2:
Under the **General** tab, you can add a description.
Check **This project is parameterized**.



Click on **Add Parameter**, and choose a parameter type like **String Parameter**



Add parameters give it a name and set a default value

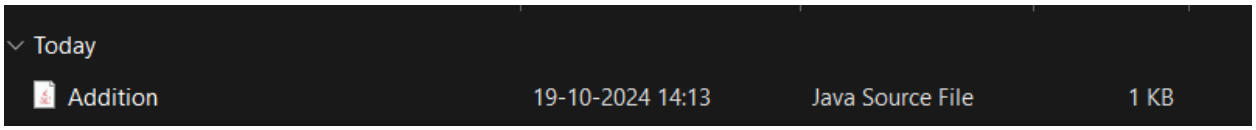
Step 3:

Create a Java program that accepts parameters from the command line (Jenkins will pass these parameters). Here's the code for the addition program:

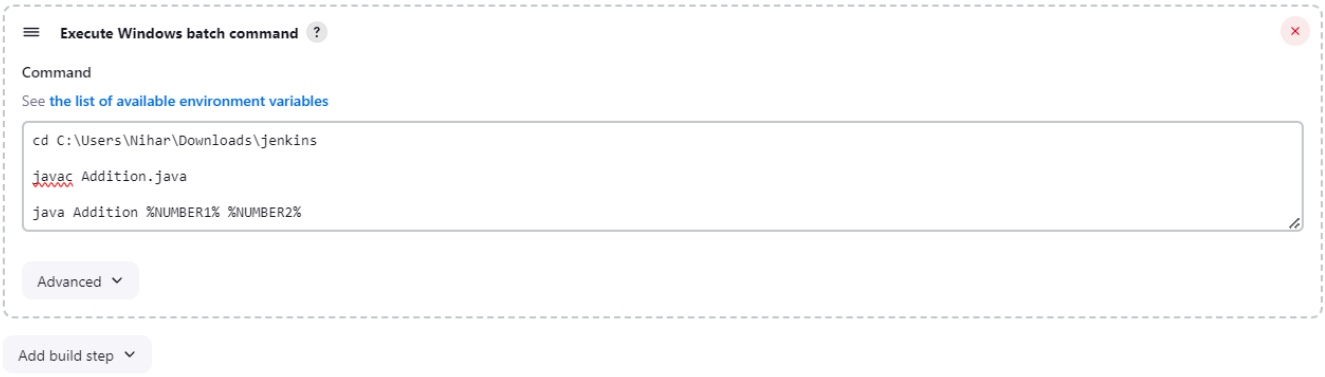
```
// Addition.java
public class Addition {
    public static void main(String[] args) {
        // Ensure there are exactly 2 arguments passed
        if (args.length != 2) {
            System.out.println("Please provide exactly two numbers as arguments.");
            return;
        }

        try {
            // Parse the input arguments as integers
```

```
            int num1 = Integer.parseInt(args[0]);
            int num2 = Integer.parseInt(args[1]);

            // Perform the addition
            int result = num1 + num2;

            // Output the result
            System.out.println("The sum is: " + result);
        } catch (NumberFormatException e) {
            System.out.println("Invalid input. Please enter two valid integers.");
        }
    }
}
```

Save it in ur local device with java extension

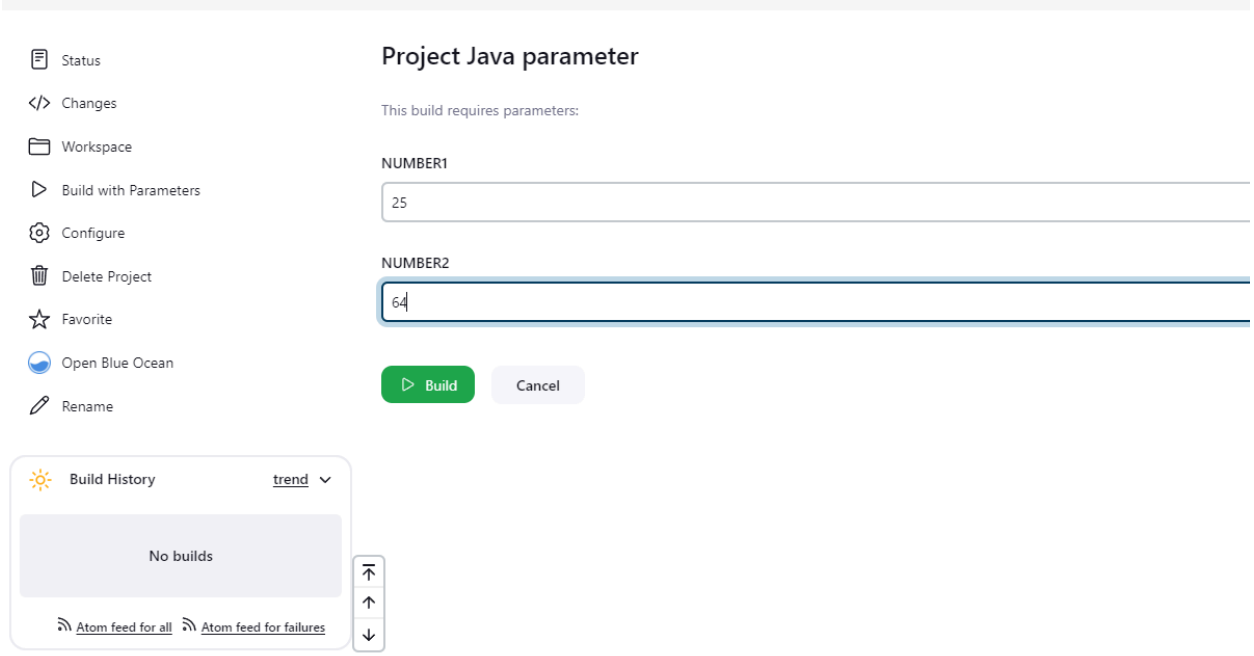


Now execute the code in the windows batch command

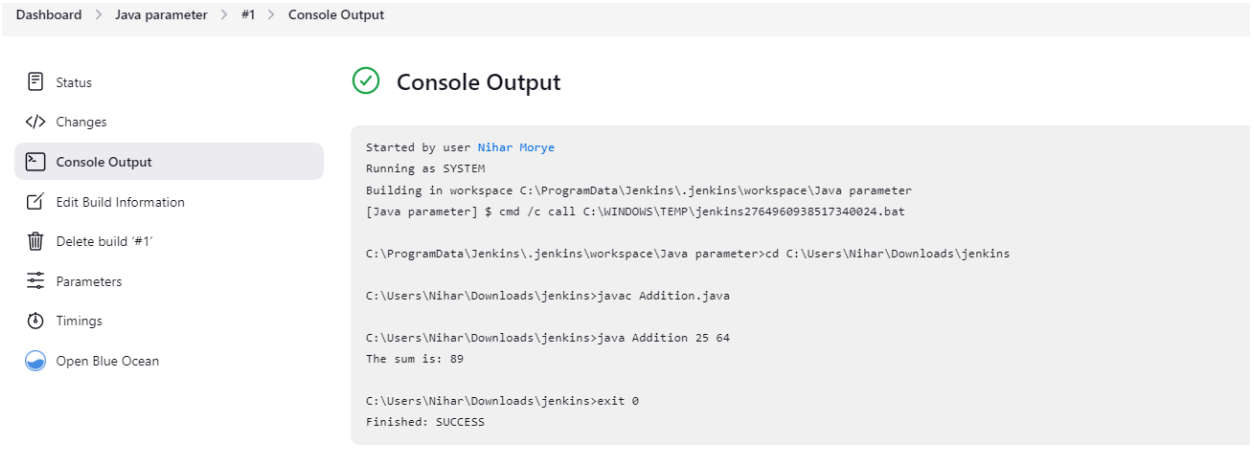


Run the Java program with Jenkins parameters as given above
Apply and save the project

Click on build parameter



Add parameter in the number 1 & number 2 and click on build to execute the program



U can do the same in python using parameters