Assignment – 5

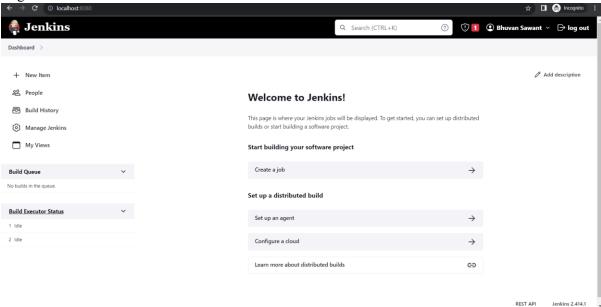
Aim: To build Java program using Jenkins.

LO Mapped: LO1, LO3

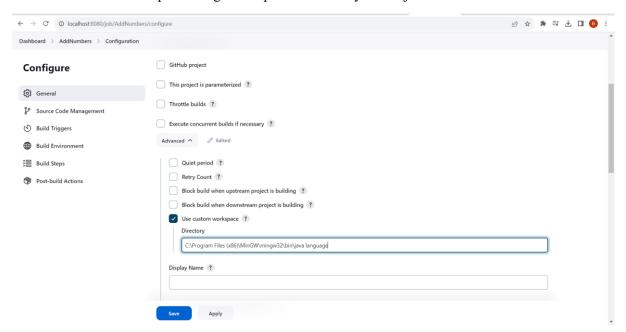
```
Theory:
Create java Programs:
Program-1
public class addnum {
  public static void main(String[] args){
     System.out.print("The sum of these numbers is: ");
     int n1 = 6;
     int n2 = 5;
     int n3 = 7;
     int sum = n1+n2+n3;
     System.out.println(sum);
  }
}
Program-2
public class Matrix_multiplication {
  public static void main(String args[]) {
    int n = 3;
    int[][] a = \{ \{5, 2, 3\}, \{2, 6, 3\}, \{6, 9, 1\} \};
    int[][] b = \{ \{2, 7, 5\}, \{1, 4, 3\}, \{1, 2, 1\} \};
    int[][]c = new int[n][n];
    System.out.println("Matrix A:");
    for (int i = 0; i < n; i++) {
```

```
for (int j = 0; j < n; j++) {
   System.out.print(a[i][j] + "");\\
  }
  System.out.println();
System.out.println("Matrix B:");
for (int i = 0; i < n; i++) {
 for (int j = 0; j < n; j++) {
    System.out.print(b[i][j] + " ");
  System.out.println();
for (int i = 0; i < n; i++) {
 for (int j = 0; j < n; j++){
    for (int k = 0; k < n; k++) {
     c[i][j] = c[i][j] + a[i][k] * b[k][j];
    }
  }
System.out.println("The product of two matrices is:");
for (int i = 0; i < n; i++) {
 for (int j = 0; j < n; j++) {
   System.out.print(c[i][j] + "");\\
  }
  System.out.println();
```

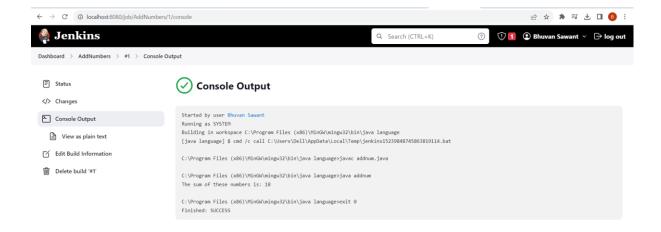
Login to Jenkins



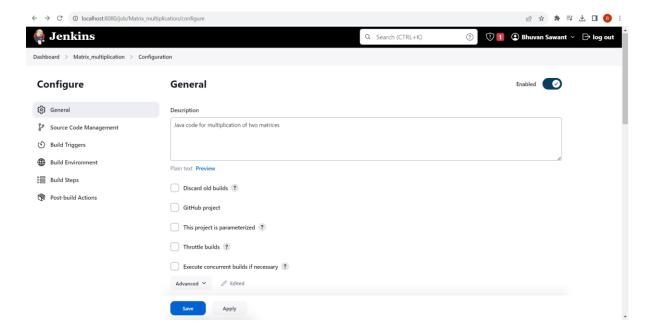
Check use custom workspace and give the path of directory where java file located.

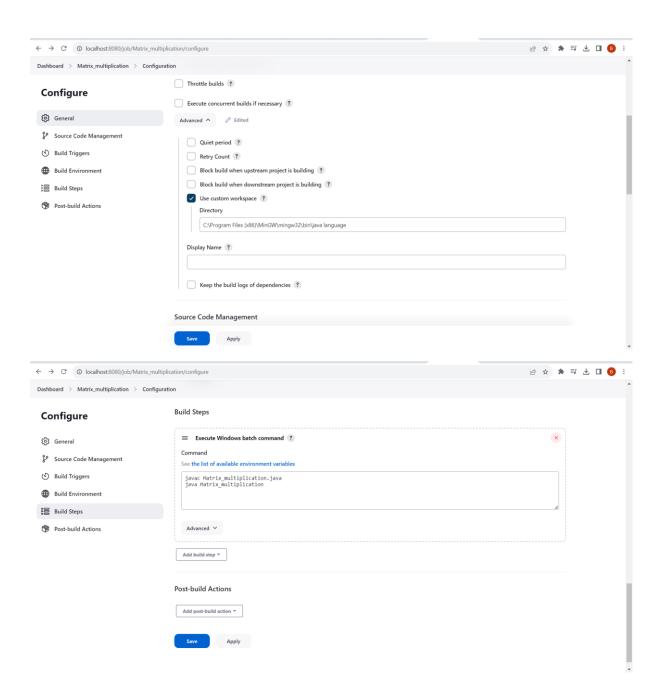


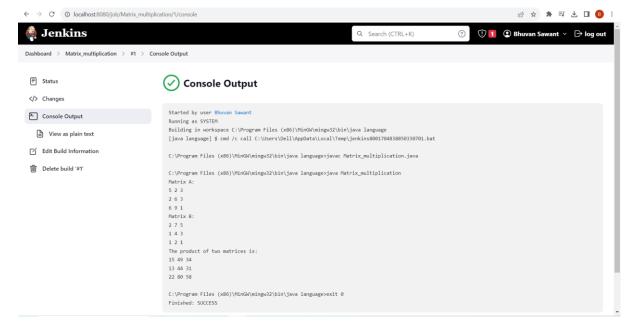
Then click on Apply and see the output of java code in console output.



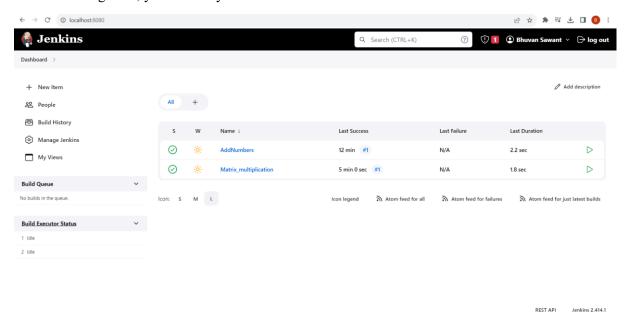
REST API Jenkins 2.414.1







After executing code, you can see your files on dashboard.



Conclusion: In this experiment We had executed java programs on Jenkins.