

Task 1 Errors detection

First Error:

```
Exception in thread "main" java.lang.RuntimeException: Uncompilable source code - Erroneous sym type: java.io.PrintStream.println
    at helloworld.HelloWorld.main(HelloWorld.java:8)
C:\Users\ICT\AppData\Local\NetBeans\Cache\8.2\executor-snippets\run.xml:53: Java returned: 1
BUILD FAILED (total time: 0 seconds)
```

Second Error:

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable source code - Erroneous tree type: <any>
    at helloworld.HelloWorld.main(HelloWorld.java:8)
C:\Users\ICT\AppData\Local\NetBeans\Cache\8.2\executor-snippets\run.xml:53: Java returned: 1
BUILD FAILED (total time: 0 seconds)
```

3rd Error:

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable source code - not a statement
    at helloworld.HelloWorld.main(HelloWorld.java:8)
C:\Users\ICT\AppData\Local\NetBeans\Cache\8.2\executor-snippets\run.xml:53: Java returned: 1
BUILD FAILED (total time: 0 seconds)
```

4th Error:

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable source code - Erroneous sym type: helloworld.HelloWorld.println
    at helloworld.HelloWorld.main(HelloWorld.java:8)
C:\Users\ICT\AppData\Local\NetBeans\Cache\8.2\executor-snippets\run.xml:53: Java returned: 1
BUILD FAILED (total time: 0 seconds)
```

5th No Error:

```
run:
Hello world
BUILD SUCCESSFUL (total time: 0 seconds)
```

Task 2 A Table of student Grades

```
run:
////////////////////////////////////////\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
==                               Student Names                               ==
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Name                               Lab                               Bonus                               Total
-----                               ---                               -----                               -----
Younis                               80                               5                               85
Waseem                               82                               1                               83
Kashif                               81                               6                               87
Mashhoque                               78                               1                               79
Faisal                               75                               3                               78
BUILD SUCCESSFUL (total time: 0 seconds)
```

Task 3 Average Calculator

```
run:
Please Input Three integers
4
8
3
Average
5
BUILD SUCCESSFUL (total time: 3 seconds)
```

Task 4 Observe +

1st Code:

```
run:
This is a long string that is Concatention of two shorter strings
BUILD SUCCESSFUL (total time: 0 seconds)
```

2nd code:

```
run:
The first computer was invented about 55Years ago
BUILD SUCCESSFUL (total time: 0 seconds)
```

3rd Code:

```
run:
8 plus 5 is 85
BUILD SUCCESSFUL (total time: 0 seconds)
|
```

4th Code:

```
run:
8 plus 5 is 13
BUILD SUCCESSFUL (total time: 0 seconds)
```

5th Code:

```
run:
13equals 8 plus 5
BUILD SUCCESSFUL (total time: 0 seconds)
```

Task 5 Calculator

```
run:
Please Input Three integers
1
2
3
Addition =6
Subtraction =-4
Multiplication =6
Devision =0
BUILD SUCCESSFUL (total time: 4 seconds)
|
```

Task 6 Speed Calculator

```
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Progr
write the distance in meters :30000
Write the time in hours,minutes and seconds :
Hours :0.5
Minutes :0
Seconds :0
Speed In Kilometer per hour :60.0 Km/h
Speed In Miles per hour :37.29024 M/h
Speed In Meter per Second :16.666666 m/s

Process finished with exit code 0
|
```

Task 7 Square, Cube And fourth power

```
run:
Please Input an integr for square,cube and fourth power
5
Square =25
cube =125
Power Four =625
BUILD SUCCESSFUL (total time: 2 seconds)
```

Task 7 with math library

```
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Progr
Type any number to find its square,cube and power four :

3
Square of the number = 9.0
Cube of the number = 27.0
Power four of the number = 81.0

Process finished with exit code 0
```

Q: 1= why java when there is other language?

Answer: Java is widely used due its simplicity and power, platform independence and large number of libraries and tools. And it provides features such as garbage collection, automatic memory management. So, it is important to consider features such scalability and specific features like Write Once Run Anywhere.

Q: 2 = is string primitive type in java?

Answer: the string is not a primitive datatype it is a class in java standard library that represents a sequence of characters.