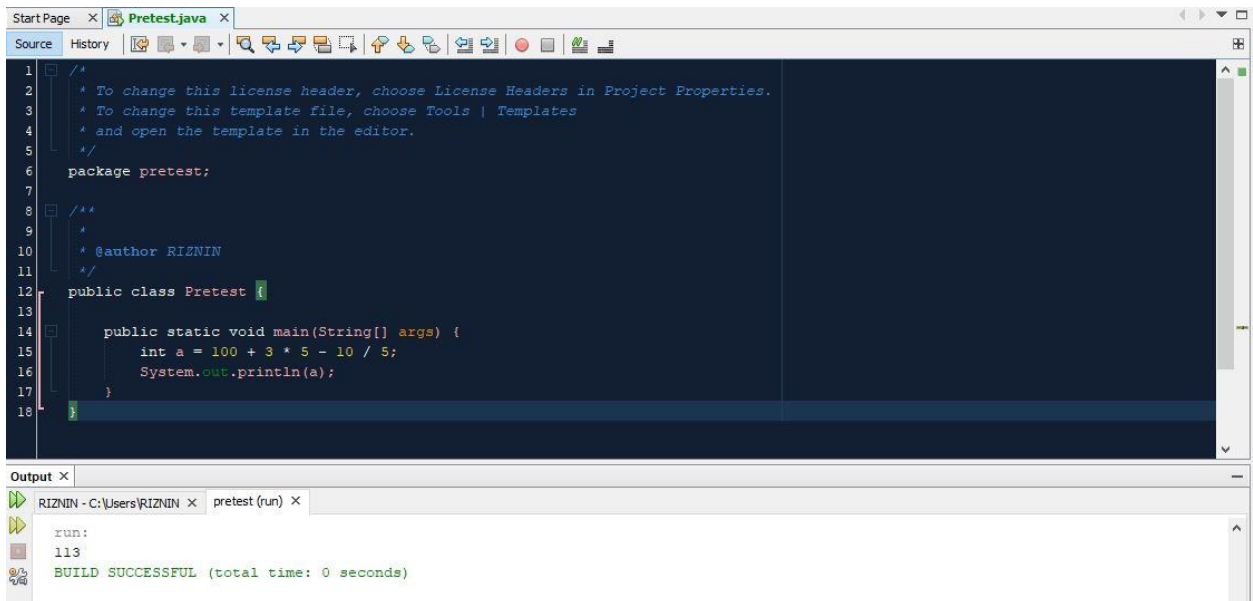## Basic Programming

1. What is the data-type usually used in arithmetic operation?
    Byte, short, long, int, double, float
2. What is the data-type usually used in word and character?
    String, char, boolean
3. What is the output of code below

```java
class area {
        public static void main(String args[])
        {
                int a = 100 + 3 * 5 - 10 / 5;
                System.out.println(a);
        }
}
```

```
Start Page   ×   Pretest.java   ×
Source   History   │ ☐ ☐ · ☐ · │ ☐ ☐ ☐ ☐ ☐ │ ☐ ☐ ☐ │ ☐ ☐ │ ☐ ☐ │ ☐ ☐ ☐
  1  ┌ /*
  2  │  * To change this license header, choose License Headers in Project Properties.
  3  │  * To change this template file, choose Tools | Templates
  4  │  * and open the template in the editor.
  5  └  */
  6     package pretest;
  7
  8  ┌ /**
  9  │  *
 10  │  * @author RIZNIN
 11  └  */
 12  ┌ public class Pretest {
 13  │
 14  │ ┌    public static void main(String[] args) {
 15  │ │        int a = 100 + 3 * 5 - 10 / 5;
 16  │ │        System.out.println(a);
 17  │ └    }
 18  └ }
```

```
Output ×
RIZNIN - C:\Users\RIZNIN  ×   pretest (run)  ×
   run:
   113
   BUILD SUCCESSFUL (total time: 0 seconds)
```

4. What is the output of code below

```java
class average {
        public static void main(String args[])
        {
                int a = 0;
                for (int i = 0; i < 6; ++i) {
                        a = a + 2;
                }
                System.out.println(a/6);

        }
}
```

```java
5     */
6     package pretest;
7
8     /**
9      *
10     * @author RIZNIN
11     */
12    public class Pretest {
13
14        public static void main(String[] args) {
15            int a=0;
16            for (int i=0; i<6; ++i) {
17                a=a+2;
18            }
19            System.out.println(a/6);
20        }
21    }
```

Output ×

RIZNIN - C:\Users\RIZNIN ×   pretest (run) ×

```
run:
2
BUILD SUCCESSFUL (total time: 0 seconds)
```

5. What is the output of code below

```java
public class Question3 {
    public static void main(String[] args) {
        String name, address;

        name = "Jack Donovan";
        address = "3566 Golden Street Miami";
        System.out.println(address.replace(" ", ""));
    }
}
```

```java
5     */
6     package pretest;
7
8     /**
9      *
10     * @author RIZNIN
11     */
12    public class Pretest {
13
14        public static void main(String[] args) {
15            String name, address;
16
17            name = "Jack Donovan";
18            address = "3566 Golden Street Miami";
19            System.out.println(address.replace(" ", " "));
20        }
21    }
```

Output ×

RIZNIN - C:\Users\RIZNIN ×   pretest (run) ×

```
run:
3566 Golden Street Miami
BUILD SUCCESSFUL (total time: 1 second)
```

Flaky Test

1. What is a flaky test?
   A flaky test is a test that sometimes passes and sometimes fails periodically without any code changes.

2. An element in a website is using ajax/javascript to show the data (processed as asynchronous). What do you do to test that element?
   AJAX allows you to make requests to the server and change the content of the page without reloading. If we are testing a web GUI that uses AJAX, we have to consider the asynchronous behavior of the page. With using Selenium, the test script should wait for some elements to change instead of waiting for a new page to load. On the other hand, the tests should not last too long. Here is some of method in Selenium: WebDriverWait and FluentWait.
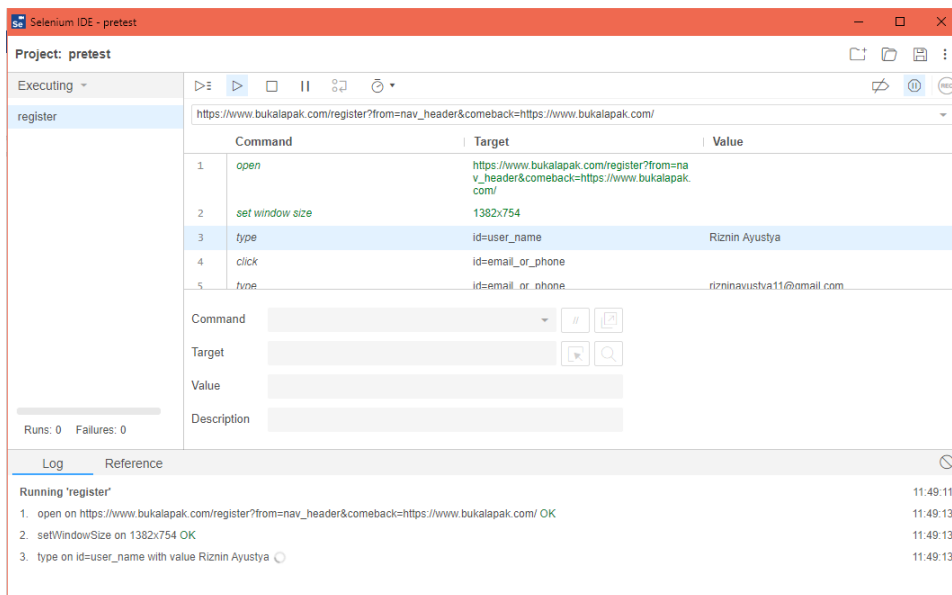
3. A website page can only be accessed with CAPTCHA. How do you test that page?
   - Completely disable captcha for the purposes of the test
   - Configure the captcha software to accept anything that is typed as being valid
   - Configure the captcha to display the actual value in the image somewhere in the web page where it can be parsed by Load Tester.

Essay Question Topic

1. Create automation test script to test these end-point:
   a. GET
   b. POST

2. Create automation test script to test 1 of these scenarios using Bukalapak website:
   Automation test script register using Selenium

```
Given ("open the website")
https://www.bukalapak.com/register?from=nav_header&comebac
k=https://www.bukalapak.com/
click (id=user_name)
    type ("id=Riznin Ayustya")
    click (id=email_or_phone)
    type ("id=rizninayustya11@gmail.com")
    click (css=.u-mrgn-right--3:nth-child(2) > .c-
          inp__inner-lbl[contains(.,'Perempuan')])
    click (id=user_password)
    type ("password")
    click (id=user_password_confirmation)
    type ("password")
click (css btn [contains(.,'Daftar')])
```


3. Create and automation test (positive and negative) for apps with 1 of these scenarios:
   a. Register
   b. Login