Roll No:3260

TestJNI.c

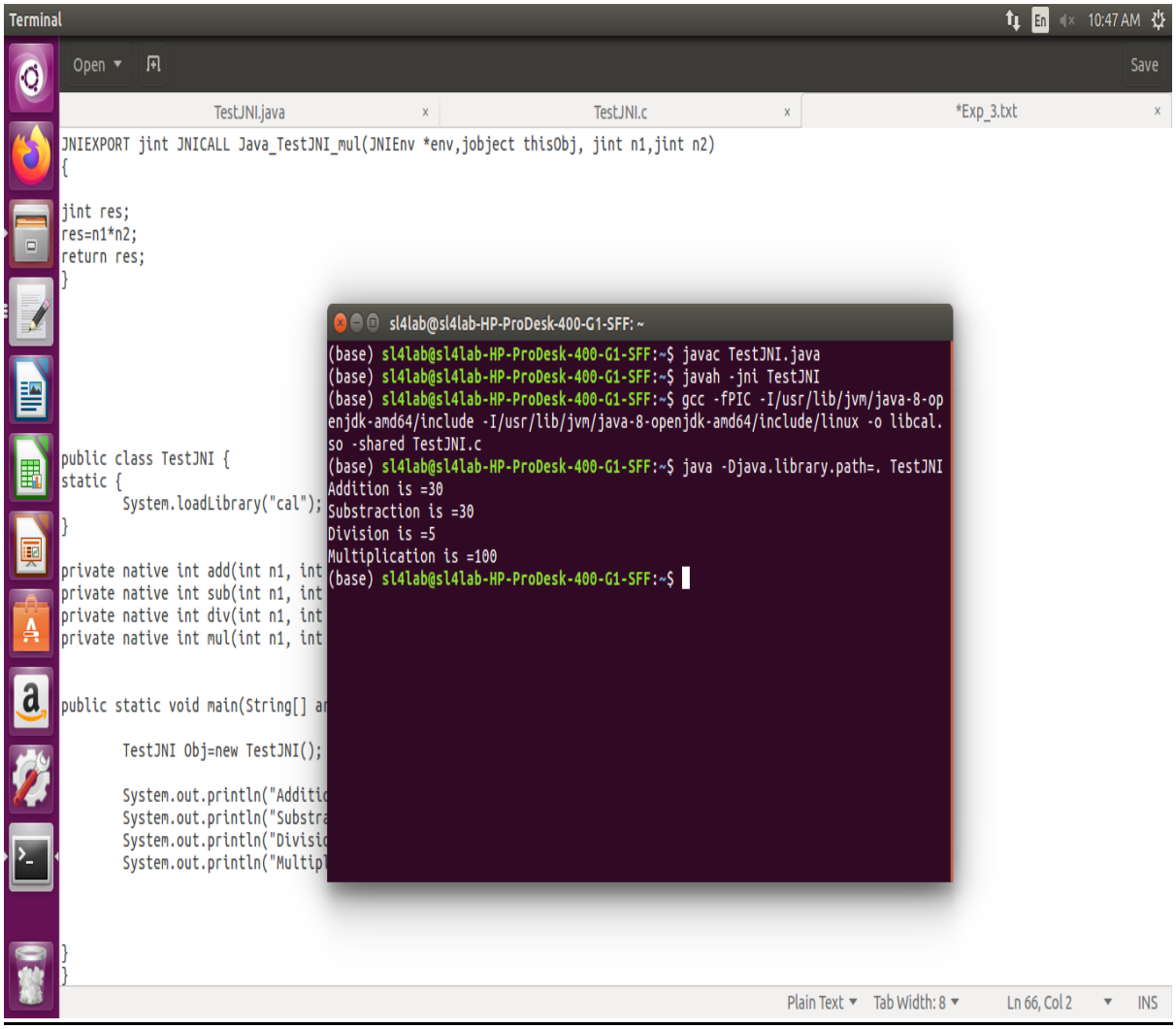
```
#include<jni.h>
#include<stdio.h>
#include "TestJNI.h"

JNIEXPORT jint JNICALL Java_TestJNI_add(JNIEnv *env,jobject thisObj, jint n1,jint n2)
{

jint res;
res=n1+n2;
return res;
}

JNIEXPORT jint JNICALL Java_TestJNI_sub(JNIEnv *env,jobject thisObj, jint n1,jint n2)
{

jint res;
res=n1-n2;
return res;
}

JNIEXPORT jint JNICALL Java_TestJNI_div(JNIEnv *env,jobject thisObj, jint n1,jint n2)
{

jint res;
res=n1/n2;
return res;
}

JNIEXPORT jint JNICALL Java_TestJNI_mul(JNIEnv *env,jobject thisObj, jint n1,jint n2)
{
```

```
jint res;
res=n1*n2;
return res;
}
```

TestJNI.java

```
public class TestJNI {
static {
        System.loadLibrary("cal");
}

private native int add(int n1, int n2);
private native int sub(int n1, int n2);
private native int div(int n1, int n2);
private native int mul(int n1, int n2);


public static void main(String[] args) {

        TestJNI Obj=new TestJNI();

        System.out.println("Addition is ="+Obj.add(10, 20));
        System.out.println("Substraction is ="+Obj.sub(50, 20));
        System.out.println("Division is ="+Obj.div(100, 20));
        System.out.println("Multiplication is ="+Obj.mul(5, 20));

}
}
```

Output


Terminal
10:47 AM
Open
Save
TestJNI.java
TestJNI.c
*Exp_3.txt
JNIEXPORT jint JNICALL Java_TestJNI_mul(JNIEnv *env,jobject thisObj, jint n1,jint n2)
{
jint res;
res=n1*n2;
return res;
}
public class TestJNI {
static {
System.loadLibrary("cal");
}
private native int add(int n1, int
private native int sub(int n1, int
private native int div(int n1, int
private native int mul(int n1, int
public static void main(String[] ar
TestJNI Obj=new TestJNI();
System.out.println("Additio
System.out.println("Substra
System.out.println("Divisio
System.out.println("Multipl
}
}
sl4lab@sl4lab-HP-ProDesk-400-G1-SFF: ~
(base) sl4lab@sl4lab-HP-ProDesk-400-G1-SFF:~$ javac TestJNI.java
(base) sl4lab@sl4lab-HP-ProDesk-400-G1-SFF:~$ javah -jni TestJNI
(base) sl4lab@sl4lab-HP-ProDesk-400-G1-SFF:~$ gcc -fPIC -I/usr/lib/jvm/java-8-op
enjdk-amd64/include -I/usr/lib/jvm/java-8-openjdk-amd64/include/linux -o libcal.
so -shared TestJNI.c
(base) sl4lab@sl4lab-HP-ProDesk-400-G1-SFF:~$ java -Djava.library.path=. TestJNI
Addition is =30
Substraction is =30
Division is =5
Multiplication is =100
(base) sl4lab@sl4lab-HP-ProDesk-400-G1-SFF:~$
Plain Text
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INS