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Class : TE Comp-2

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**Input:**

**B1.c**

#include <jni.h>  
#include <stdio.h>  
#include "B1.h"  
JNIEXPORT int JNICALL Java\_B1\_add(JNIEnv \*env, jobject obj, jint a, jint b)  
{  
printf("\n%d + %d = %d\n",a,b,(a+b));  
return;  
}  
JNIEXPORT int JNICALL Java\_B1\_sub(JNIEnv \*env, jobject obj, jint a, jint b)  
{  
printf("\n%d - %d = %d\n",a,b,(a-b));  
return;  
}

JNIEXPORT int JNICALL Java\_B1\_mult(JNIEnv \*env, jobject obj, jint a, jint b)  
{  
printf("\n%d \* %d = %d\n",a,b,(a\*b));  
return;  
}  
JNIEXPORT int JNICALL Java\_B1\_div(JNIEnv \*env, jobject obj, jint a, jint b)  
{  
printf("\n%d / %d = %d\n",a,b,(a/b));  
return;  
}

**B1.java**

import java.io.\*;  
import java.util.\*;  
class B1 {  
static {  
System.loadLibrary("B1");  
}  
private native int add(int a, int b);  
private native int sub(int a, int b);  
private native int mult(int a, int b);  
private native int div(int a, int b);  
public static void main(String[] args) {  
Scanner sc=new Scanner(System.in);  
int a, b,ch;  
System.out.println("\nEnter value of a : ");  
a = sc.nextInt();  
System.out.println("\nEnter value of b : ");  
b = sc.nextInt();  
do  
{  
System.out.println("\nENTER YOUR CHOICE : ");  
ch = sc.nextInt();  
switch(ch)  
{  
case 1 : new B1().add(a,b);  
break;  
case 2 : new B1().sub(a,b);  
break;  
case 3 : new B1().mult(a,b);  
break;  
case 4 : new B1().div(a,b);  
break;  
default : System.out.println("Your choice is wrong.");  
}  
}while(ch<5);  
}  
}

**Output:**

(base) admin1@413-24:~$ javac B1.java

(base) admin1@413-24:~$ javah -jni B1

(base) admin1@413-24:~$ locate jni.h

/home/admin1/.vscode/extensions/redhat.java-1.32.0-linux-x64/jre/17.0.11-linux-x86\_64/include/jni.h

/home/admin1/.vscode/extensions/redhat.java-1.33.0-linux-x64/jre/17.0.11-linux-x86\_64/include/jni.h

/opt/android-studio/jre/include/jni.h

/snap/intellij-idea-community/495/jbr/include/jni.h

/snap/intellij-idea-community/515/jbr/include/jni.h

/snap/vlc/3721/usr/lib/jvm/java-8-openjdk-amd64/include/jni.h

/snap/vlc/3777/usr/lib/jvm/java-8-openjdk-amd64/include/jni.h

/usr/lib/jvm/java-11-openjdk-amd64/include/jni.h

/usr/lib/jvm/java-8-openjdk-amd64/include/jni.h

/usr/lib/jvm/java-8-oracle/include/jni.h

/usr/local/java/jdk1.8.0\_181/include/jni.h

(base) admin1@413-24:~$ gcc -I/usr/lib/jvm/java-8-openjdk-amd64/include -I/usr/lib/jvm/java-8-openjdk-amd64/include/linux -o libB1.so -shared -fPIC B1.c

(base) admin1@413-24:~$ java -Djava.library.path=. B1

Enter value of a :

50

Enter value of b :

20

ENTER YOUR CHOICE :

1

50 + 20 = 70

ENTER YOUR CHOICE :

2

50 - 20 = 30

ENTER YOUR CHOICE :

3

50 \* 20 = 1000

ENTER YOUR CHOICE :

4

50 / 20 = 2

ENTER YOUR CHOICE :

5

Your choice is wrong.