**ASSIGNMENT NO:05-Group A**

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**C code:-**

#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 ;

}

**Java code:-**

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 the value of A: ");

a = sc.nextInt();

System.out.println("\nEnter the value of B: ");

b= sc.nextInt();

do {

System.out.println("\nEnter the 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);

}

}

**C header file:-**

/\* DO NOT EDIT THIS FILE - it is machine generated \*/

#include <jni.h>

/\* Header for class B1 \*/

#ifndef \_Included\_B1

#define \_Included\_B1

#ifdef \_\_cplusplus

extern "C" {

#endif

/\*

\* Class: B1

\* Method: add

\* Signature: (II)I

\*/

JNIEXPORT jint JNICALL Java\_B1\_add

(JNIEnv \*, jobject, jint, jint);

/\*

\* Class: B1

\* Method: sub

\* Signature: (II)I

\*/

JNIEXPORT jint JNICALL Java\_B1\_sub

(JNIEnv \*, jobject, jint, jint);

/\*

\* Class: B1

\* Method: mult

\* Signature: (II)I

\*/

JNIEXPORT jint JNICALL Java\_B1\_mult

(JNIEnv \*, jobject, jint, jint);

/\*

\* Class: B1

\* Method: div

\* Signature: (II)I

\*/

JNIEXPORT jint JNICALL Java\_B1\_div

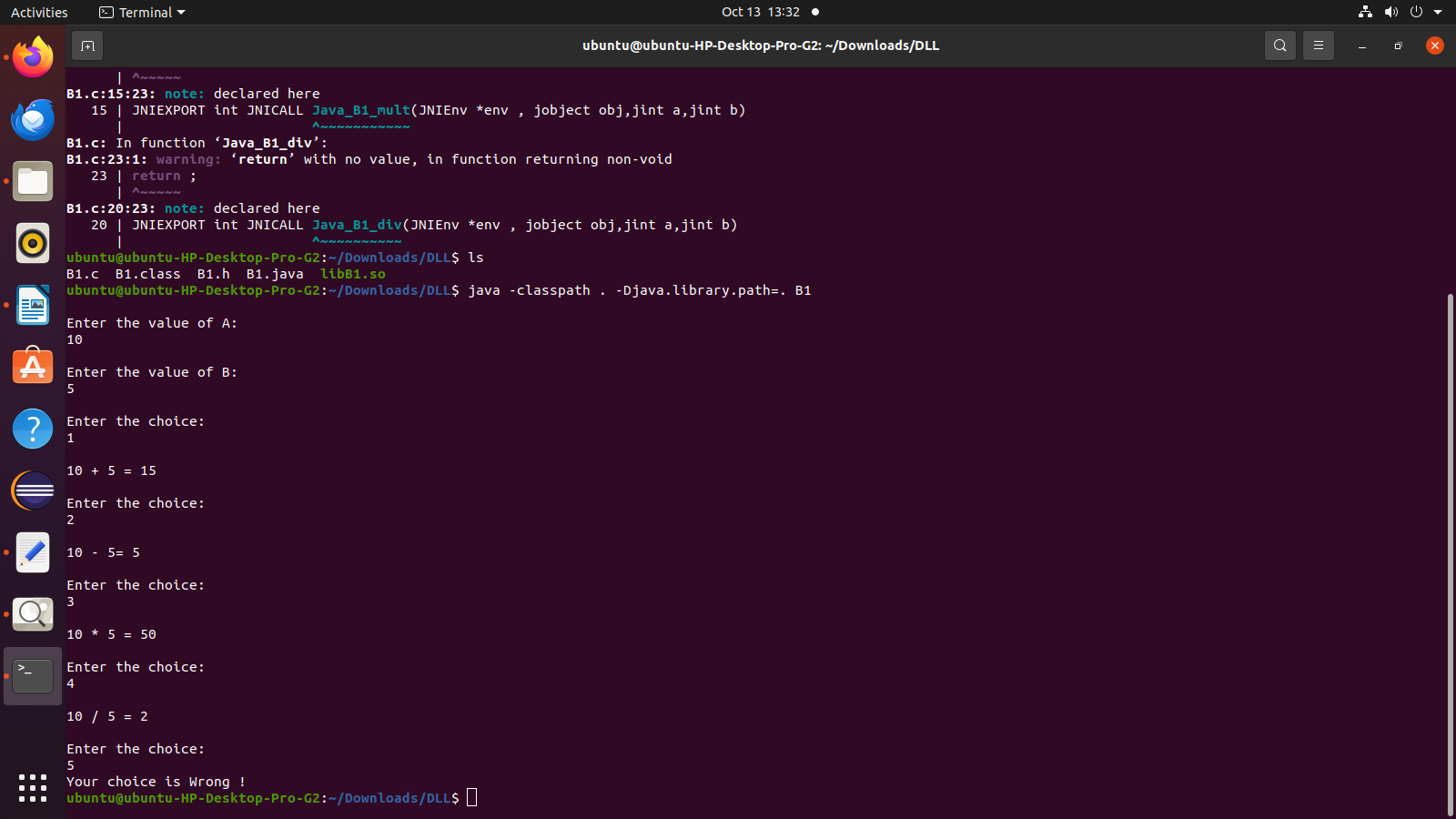
(JNIEnv \*, jobject, jint, jint);

#ifdef \_\_cplusplus

}

#endif

#endif

**Output:-**