B1.java

```java
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);

  }

}
```

b1.c

```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;

}
```

Exeution Steps:

```
$ javac B1.java

javah -classpath . B1

$ ls

B1.c B1.c~ B1.class B1.h B1.java

$ gcc -shared -fPIC -I/usr/lib/jvm/default-java/include -I/usr/lib/jvm/default-java/include/linux B1.c -
o libB1.so

$ ls

B1.c B1.c~ B1.class B1.h B1.java libB1.so

$ java -classpath . -Djava.library.path=. B1

Hello World!
```