***POLYMORPHISM***

***RUNTIME POLYMORPHISM OR METHOD OVERRIDING/OVERRIDDEN***

**SOURCE CODE:**

package polymorphism;

class addition{

void calc() {

int a=87,b=65;

int c=a+b;

System.out.println("The addition of given number is "+ c);

}}

class subtract extends addition{

void calc() {

int a=87,b=65;

int d=a-b;

System.out.println("The subtraction of given number is "+ d);

}}

class multiply extends addition{

void calc() {

int a=87,b=65;

int e=a\*b;

System.out.println("The multiple of given number is "+ e);

}}

class divide extends addition{

void calc() {

int a=87,b=65;

int f=a/b;

System.out.println("The division of given number is "+ f);

}}

public class Poly {

public static void main(String[]args) {

addition ad=new addition();

ad.calc();

subtract sub=new subtract();

sub.calc();

multiply mul=new multiply();

mul.calc();

divide div=new divide();

div.calc();

}}

**OUTPUT:**

The addition of given number is 152

The subtraction of given number is 22

The multiple of given number is 5655

The division of given number is 1

***COMPILETIME POLYMORPHISM OR METHOD OVERLOADING***

**SOURCE CODE:**

package polymorphism;

class calc{

int cal(int a,int b) {

return a+b;

}

int cal(int a,int b,int c) {

return a-b-c;

}

}

public class Poly1 {

public static void main(String[]args) {

calc c=new calc();

System.out.println("The addition of given number is "+c.cal(25,8));

System.out.println("The subtraction of given number is "+c.cal(25,8,8));

}

}

**OUTPUT:**

The addition of given number is 33

The subtraction of given number is 9