

1)

```
public class Assignment {  
    public static void main(String[] args) {  
  
        MathOperations math = new MathOperations();  
        int a = 3;  
        long b = 100;  
  
        System.out.println(math.add(a, a));  
        System.out.println(math.multiply(b, b));  
  
    }  
}
```

```
class MathOperations {  
  
    int add(int a, int b)    {  
        return a + b;  
    }  
  
    double add(double a, double b)    {  
        return (double)a + b;  
    }  
  
    byte add(byte a, byte b)    {  
        return (byte)(a + b);  
    }  
  
    short add(short a, short b)    {  
        return (short)(a + b);  
    }  
  
    long add(long a, long b)    {  
        return (long)a + b;  
    }  
  
    int subtract(int a, int b)    {  
        return a - b;  
    }  
  
    double subtract(double a, double b) {  
        return (double)a - b;  
    }  
}
```

```
byte subtract(byte a, byte b) {  
    return (byte)(a - b);  
}
```

```
short subtract(short a, short b)    {  
    return (short)(a - b);  
}
```

```
long subtract(long a, long b) {  
    return (long)a - b;  
}
```

```
int multiply(int a, int b)    {  
    return a * b;  
}
```

```
double multiply(double a, double b) {  
    return (double)a * b;  
}
```

```
byte multiply(byte a, byte b) {  
    return (byte)(a * b);  
}
```

```
short multiply(short a, short b)    {  
    return (short)(a * b);  
}
```

```
long multiply(long a, long b) {  
    return (long)a * b;  
}
```

```
int divide(int a, int b) {  
    return a / b;  
}
```

```
double divide(double a, double b) {  
    return (double)a / b;  
}
```

```
byte divide(byte a, byte b)    {  
    return (byte)(a / b);  
}
```

```

        short divide(short a, short b) {
            return (short)(a / b);
        }

        long divide(long a, long b) {
            return (long)a / b;
        }
    }

```

2)

```

public class Sample {
    public static void main(String[] args) {

        Person person1 = new Person("Dinesh Kumar");
        Person person2 = new Person("Dinesh Kumar", 22);
    }
}

class Person {

    Person(String name) {
        System.out.println("Hi, my name is " + name);
    }

    Person(String name, int age) {
        System.out.println("Hi, my name is " + name + ". I am " + age + " years old");
    }

    Person(String name, int age, String address) {
        System.out.println("Hi, my name is " + name + ". I am " + age + " years old. I am
from " + address);
    }
}

```

3)

```

package ZSGS;

```

```

public class Person {

    Person(String name) {
        System.out.println("Hi, my name is " + name);
    }
}

```

```
    Person(String name, int age) {  
        System.out.println("Hi, my name is " + name + ". I am " + age + " years old");  
    }  
  
    Person(String name, int age, String address) {  
        System.out.println("Hi, my name is " + name + ". I am " + age + " years old. I am  
from " + address);  
    }  
  
    public static void main(String[] args) {  
  
        Person person1 = new Person("Dinesh Kumar");  
        Person person2 = new Person("Dinesh Kumar", 22);  
    }  
}
```