1.

```
class A  implements Number
{
   public int findSqr(int i) {
      return i*i;
   }
}
```

2.

```
class B implements GCD
{
        public int findGCD(int n1,int n2)
   {

        if(n2 == 0)
      {
        return n1;
      }
        return findGCD(n2,n2%n1);

   }
}
```

3.

```
        a = input.nextInt();
        b = input.nextInt();
try{
        System.out.print(a/b);
}catch(ArithmeticException e){
        System.out.print("Exception caught: Division by zero.");
}
```

4.

```
for(int i=0 ; i<length ; i++)
{
  try{
    name[i] = sc.nextInt();
    sum += name[i];
  }catch(InputMismatchException e){
    sum = -1;
  }
}

if(sum == -1)
{
        System.out.print("You entered bad data.");
}
else
```

```
{
        System.out.print(sum);
}
```

5.

// Put the following code under try-catch block to handle exceptions

```
try{
        switch (i) {
          case 0 :
                int zero = 0;
                j = 92/ zero;
                break;
        case 1 :
                int b[ ] = null;
                j = b[0] ;
                break;
          default:
            System.out.print("No exception");
         }

}catch(Exception e)
{
        System.out.print(e);
}
```