1. **Write a program to recognize methods in a java program and output their names.**

Sample Input/Output:

```
a. public class A {
       int x, int y;

       public int add(int a, int b)
          {
            return a+b;
          }

       public static int subtract(int a, int b)
          {
            return a-b;
          }
       public void add()
          {
            return x+y;
          }

       public static void main(String[]args) {

       System.out.println(subtract(10,5));
       A a=new A();
       a.add(20,10);

       }

  }
```

```
Sample Output:

Methods:
   add (int a, int b)
   add ()
   subtract ()
```

Bonus: If you can output the methods name with their return type.

```
Sample Output:

Methods:
   add (int a, int b),    return type: int
   add (),  return type: void
   subtract (),   return type: int
```