

Category - I → Function with no argument, no return value.

class demo I

```
{  
    public void fun()  
    {  
        int a=5;  
        System.out.print(a*a);  
    }  
}
```

```
public class MyClass {  
    public static void main (String[] arg) {  
        demo1 obj = new demo1();  
        obj.fun();  
    }  
}
```

}

Category 2: Functions with argument no return value.

class demo 2

```
{
    public void fun(int a)
    {
        System.out.print (a*a);
    }
}

3.
public class My Class
{
    public static void main (String args [])
    {
        demo 2 obj 1 = new demo 2();
        obj 1. fun (5);
    }
}
```

3.

Category - 3: Functions with no argument with return value.

```
class demo3
```

```
{  
    public int fun()
```

```
{  
    int a = 5;  
    int c = a*a;  
    return c;
```

```
}
```

```
}
```

```
public class MyClass.
```

```
{  
    public static void main (String args [])
```

```
{  
        demo3 o = new demo3 ();
```

```
        int r = o.fun();
```

```
        System.out.print (r);
```

```
}
```

```
}
```

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Category - 4 : Function with arguments with return value.

class demo4

```
{ public int fun(int a)
```

```
{  
    int c = a*a;  
    return c;  
}
```

```
}
```

```
public class MyClass {
```

```
    public static void main (String args [])
```

```
{  
    demo4 obj = new demo4 ();
```

```
    int r = obj.fun(5);
```

```
    System.out.print(r);
```

```
}
```

```
}
```