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TASK 5

Summarize overloading method and constructor using trusted references(minimum 2) with your own words and give the examples.

1. Overloading methods

In Java, two or more methods may have the same name if they differ in parameters (different number of parameters, different types of parameters, or both). These methods are called overloaded methods and this feature is called method overloading.

Method overloading is achieved by either:

- changing the number of arguments.
- or changing the data type of arguments.

Example :

```
class Human()  
{  
String name;  
public void getName()  
{  
return name;  
}  
public void getName(string Middle_name)  
{  
return name + Middle_name;  
}  
}
```

2. Constructor

Java constructors or constructors in Java is a terminology been used to construct something in our programs. A constructor in Java is a **special method** that is used to initialize objects. The constructor is called when an object of a class is created. It can be used to set initial values for object attributes.

Example :

```
class Human  
{  
private String name;  
//called when its class get constructed  
  
public Human(String Name)
```

```
{
this.name = Name;
}

}

class program
{
public static void main(String[] args)
{
Human human = new Human("DIEGO");
}
}
```

Resources :

<https://www.programiz.com/java-programming/method-overloading>

<https://www.geeksforgeeks.org/constructors-in-java/>