**Oops Fundamentals**

**Assignments Questions**

**1. How to Create an Object in Java?**

Syntax to create new object is

class\_name var\_name = new class\_name();

**2. What is the use of a new keyword in Java?**

new keyword is used to allocate memory in the heap and to create new object.

**3. What are the different types of variables in Java?**

Three different types of variable in java are :-

* Local Variable
* Instance Variable
* Static Variable

**4. What is the difference between Instance variable and Local variables?**

**Instance variable**

* They are defined in class but outside the body of methods.
* It can be accessed throughout the class.
* These variables are destroyed when the object is destroyed.

**Local variable**

* They are defined as a type of variable declared within programming blocks.
* Its access is limited to the method in which it is declared.
* These variables are destroyed when the constructor or method is exited.

**5. In which area memory is allocated for instance variable and local variable?**

Instance Variable is stored in heap memory

Local Variable is stored in Stack

**6. What is method overloading?**

Method overloading is used to create different method with same name keeping two things in mind.

* Either the type of data must be different
* Or number of parameters must be different.