## Assignment

1. How to create in object in Java!

There are several ways we can create objects of a class in Java as we all known a class provides the bluepoint for objects, you create in objects from a class. This concept is under pated and sometimes proves to be be nefical at this concept is by passed by many programmers and sometimes even do ask from interview perfecting

There are many diffrent ways to create objects in Java. the help of Programs to illustrate internal working by which we can create in object in Java

- 1. Using new Keyword
- 2. Using new instance
- 3. using clonec) method.
- 4. using desenialization
- 5. using newinstance () method of construction class.

Let us dissouss them one by one and implement the same appending a clean jova program of same.

using the new Keyword in Java 98 the most basic way to create an object this is the most common way to create and object in Java. Almost 99% of objects are creater in this way:

By using this methods we can call any constructors we want to call (no argument or Parameterised constructors).

- 2. what 9s the use of a new keyword in Java?
- The "new" Keyword in Java is used to create an instance of an object It allocates memory to an object and betweens a beforence to the object created. It is used with a constructor to create anobject.
- 3. what are the diffreent types of variable in Java?
  - · Static variables
  - · Instance variables
- · Local varsiables.

40 what 98 the diffrence between instance variables and Local variables! Local variable Instance varsiable They are defined in class They are defined as any e of varsiable declared within but outside the proogramming blocks on body of methods 3ubrooutines These variable are These variable are cheated when an object cheated when ablock method. On constructor is instantland and ane accesible to all constructor is started, and the vacing methods, and blocks in will be destroyed once it air the block, method on constant the class These variable are These variable are destrooyed when the destrooyed when the obsect is distroyed constructors method is exited 9+s access 9s limited to It can be accessed throughout the class the method by which its declared They are used to nese- They are used to decrease oring memory for data defendencies between that class needs and components i.e. complexity. lifetime of object the code is decreased It includes access It does not include any modifiers such as access modifiera Proivate, Public, Protected Such as Proivate, Public Protected etc etc

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5. In which area memory is allocated for instance variable and local variable? in the heap and local variable are allocated allocated in stack.

in what is method overbloading!

The method overbloading in Java is a feature that allows a class to have multiple methods with the same name but different Parameters. Overbloading is used to Provide multiple ways to call a method for different use cases, making code more peadable and reveable.