FALL SEM – (2020 – 21)

CSE2005

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REG NO : 19BCD7246

LAB NO : 5

SLOT : L5

Rohit gives a task to his younger brother where he will be given three variables which may hold any type of data. The task here is to print the given inputs in the same format.

[HINT: Use the concept of generic methods.]

18	10861	Virat
Sachin	10	18426
7	Dhoni	10534
10201	333	Gayle
ABD	9577	17

CODE-1:

```java
class Generic <S,T,U>{
  S x;
  T y;
  U z;
  Generic(S x,T y,U z ){
    this.x=x;
    this.y=y;
    this.z=z;
    }
  public <S,T,U> void GenericMethod(S x,T y,U z){
    System.out.println("\n"+x+"         "+y+"          "+z+"\n");
    }
}
public class Main{
    public static void main(String[] args) {
        Generic<Integer,Integer,String> a1= new
Generic<Integer,Integer,String>(18,10861,"Sachin");
        a1.GenericMethod(18,10861,"Sachin");
```

```java
        Generic <String,Integer,Integer> a2= new
Generic<String,Integer,Integer>("Sachin",10,18426);
        a2.GenericMethod("Sachin",10,18426);
        Generic <Integer,String,Integer> a3= new
Generic<Integer,String,Integer>(7,"Dhoni",10534);
        a3.GenericMethod(7,"Dhoni",10534);
        Generic <Integer,Integer,String> a4= new
Generic<Integer,Integer,String>(10201,333,"Gayle");
        a4.GenericMethod(10201,333,"Gayle");
        Generic <String,Integer,Integer> a5= new
Generic<String,Integer,Integer>("ABD",9577,17);
        a5.GenericMethod("ABD",9577,17);
    }
}
```

OUTPUT:

```
> javac -classpath .:/run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
> java -classpath .:/run_dir/junit-4.12.jar:target/dependency/* Main

18          10861         Sachin


Sachin          10          18426


7          Dhoni          10534


10201          333          Gayle


ABD          9577          17
```

CODE -2:

```java
class GenericMethod{
public <a> void method(a x,a y,a z){
    System.out.println("\n"+x + "                " + y + "                " + z
+"\n");
  }
}
public class Main{
public static void main(String[] args){
GenericMethod g=new GenericMethod();
    g.method(18,10861,"Virat");
    g.method("Sachin",10,18426);
    g.method(7,"Dhoni",10534);
    g.method(10201,333,"Gayle");
    g.method("ABD",9577,17);
  }
}
```

OUTPUT:

```
> javac -classpath .:/run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
> java -classpath .:/run_dir/junit-4.12.jar:target/dependency/* Main

18              10861           Virat


Sachin          10              18426


7               Dhoni           10534


10201           333             Gayle


ABD             9577            17
```