

Assignment 1

There is two java file to be compiled and run, with the name “Test.java” and “ISA.java”.
To compile and run it, enter the following commands in your terminal:-

```
>> javac Test.java  
>> java Test
```

It'll give you a list of values stored in different registers after each 40 bit instruction(LHS+RHS) is executed. This will be done for each of the 2 programs implemented in the code through the IAS instructions.

- 1) 1 st program is a set of random instructions encompassing all the 21 instructions available in an IAS ISA.
- 2) 2 nd program is a valid higher-level program which returns the mod(a-b) of as written below:-

```
a = 10, b = 15;  
if(a >=b)  
    c = a-b;  
else  
    c = b-a;
```

Thank You, ma'am ...