SDF TUTORIAL 12

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**A7**

Q1:

1. Output will be: **4**

Because inside the class **Test** there is static data member **i** and a normal data member **j** and static data members are stored separately rather than as a part of an object.

As no object of class is created. sizeof(Test) will be **4**.

1. Output will be **A::a=10 B::b=0**

Because when object **a** of class **A** is created **a** will be given value **0** according to Default Constructor, similarly **b**  will be given value 0.

When **show** function is called, **a** will be changed to **10** and  **b** will remain **0**.

1. Output will be:

**Base1’s constructor called**

**Base2’s constructor called**

**Derived’s constructor called**.

Because when object d of Derived class is created Base1 and Base2

Default Constructor will be called and then Derived’s Default constructor is called.

1. Output will be:

**i = 10**

**i = 20**

because inside the main function object b of class B is declared with value of x=10.

Operator overloading is used here. When g(b) is called i will be given value 10 and when g(20) is called i will be given value 20.

1. Output will be: **80**

Because size of class b1 and b2 will be 10\*4+10\*4=80

1. Output will be:

**Constructor Called**

**Constructor Called**

Because inside the main function first line **String s1("Good");**

p will be given **“String”** and it will print **Constructor Called** in the second line name=**Morning**. p will be given **“Morning”**  and it will print **Constructor Called**.

1. Output will be : **76**.

Because getA() is a static member function so we have to call it by using  **X::getA()**

1. Output will be: **Inside Q**