**Lab Task 4 -10 CLASSES :**

**Report:**

1. Class 1 which is:

## class A

## {

## private:

## int b;

## protected:

## int c;

## public:

These variables are accessible in class A and F, only variables with public access modifier is accessible outside both classes A and F , while other variables are not.

1. Class 2 which is:

## class B

## {

## private:

## int e;

## protected:

## int f;

## public:

## int d;

These variables are accessible in class B and G, only variables with public access modifier is accessible outside both classes B and G, while other variables are not.

1. Class 3 which is:

## class C

## {

## private:

## int h;

## protected:

## int i;

## public:

## int g;

These variables are accessible in class C only variables with public access modifier is accessible outside main class because there is no class inherit from class C, while other variables are not.

1. Class 4 which is:

## class D

## {

## private:

## int k;

## protected:

## int l;

## public:

## int j;

These variables are accessible in class D only variables with public access modifier is accessible outside main class because there is no class inherit from class D, while other variables are not.

1. Class 5 which is:

## Class E:

## {

## private:

## int n;

## protected:

## int o;

## public:

## int m;

These variables are accessible in class E only variables with public access modifier is accessible outside main class because there is no class inherit from class D, while other variables are not.

1. Class 6 which is:

## Class F

## {

## private:

## int q;

## protected:

## int r;

## public:

## int p;

These variables are accessible in class F and A, only variables with public access modifier is accessible outside both classes F and A, while other variables are not.

1. Class 7 which is:

## class G

## {

## private:

## int t;

## protected:

## int u;

## public:

## int s;

These variables are accessible in class G and F, only variables with public access modifier is accessible outside both classes F and G, while other variables are not.

1. Class 8 which is :

## class H

## {

## protected:

## int x;

## private:

## int w;

## public:

## int v;

These variables are accessible in class G and H, only variables with public access modifier is accessible outside both classes H and G, while other variables are not.

## Class 9 which is:

## class I

## {

## protected:

## int a1;

## private:

## int z;

## public:

## int y;

These variables are accessible in class G,I and H, only variables with public access modifier is accessible outside both classes H ,I and G, while other variables are not.

1. Class 10 which is:

## class J

## {

## protected:

## int a4;

## private:

## int a3;

## public:

## int a2;

These variables are accessible in class G,I , H and J only variables with public access modifier is accessible outside both classes H ,I ,G and J while other variables are not.