

C++ Programming Assignment - 27

1. What are the types of inheritances according to the architecture?
2. Explain the concept of Access specifiers in detail?
3. What is difference between private and protected access specifier?
4. What is the default access specifier if it is not written explicitly?
5. What are the types of inheritances according to access specifiers?
6. Explain the constructor and destructor calling sequence in case of single level, multi level and multiple inheritance.
7. Draw object layout & class diagram of below code snippets and explain its internal working in detail. Explain the type of inheritance in the below code snippet.

```
class base
{
    public :
    int i;
    float f;
    double d;

    void fun()
    {}

    void gun()
    {}
};

class derived : public base
{
    public :
    int i;
    double d;

    void sun()
    {}
}

int main()
{
    base bobj;
    derived dobj;

    return 0;
}
```

8. Draw object layout & class diagram of below code snippets and explain its internal working in detail. Explain the type of inheritance in the below code snippet.

```
class base1
{
    public :
        int i;
        float f;

        void gun()
        {}
};

class base2
{
    public :
        int j;
        float g;

        void fun()
        {}
};

class derived : public base1, base2
{
    public :
        int i;
        double d;

        void sun()
        {}
}

int main()
{
    derived dobj;
}
```

9. Draw object layout & class diagram of below code snippets and explain its internal working in detail. Explain the type of inheritance in the below code snippet.

```
class base
{
    public :
        int i;
        float f;
        double d;

        void fun()
        {}

        void gun()
        {}
}
```

```
};

class derived : public base
{
    public :
    int i;
    double d;

    void sun()
    {}
}

class derivedX : public derived
{
    public :
    int k;

    void run()
    {}
}

int main()
{
    base bobj;
    derived dobj;
    derivedX dobj1;

    return 0;
}
```

10. Draw object layout & class diagram of below code snippets and explain its internal working in detail. Explain the type of inheritance in the below code snippet.

```
class base
{
    public :
    int i;
    float f;
    double d;

    void fun()
    {}

    void gun()
    {}
};

class derived1 : public base
{
    public :
    int x,y;
```

```
        void sun()
        {}
    }

    class derived2 : public base
    {
        public :
        int j,k;

        void run()
        {}
    }

    int main()
    {
        base bobj;
        derived1 dobj1;
        derived2 dobj2;

        return 0;
    }
```

