Answer on Question #58468 - Programming & Computer Science / C++

Question

```cpp
class point {
private:
      string mytype;
      int x;
public:
      point() { }
      int getX() const { cout << "point :: getX() const"; return 10; }
      int getX() { cout << "point :: getX() "; return x; }
      virtual string isa() const { return "point"; }
};

class circle : protected point {
public:
      circle() : point() {}
      virtual string isa() const { return "circle"; }
      void setr(int y = 200) { r = y; }
protected:
      int getr() const { cout << "\n circle :: getr()"; return r; }
private:
      int r;
};
```

answer   the   following
a)what   is   the   relationships   between   "statement   C"and   "statement   D"?
b)what   is   the   relationships   between   "statement   A"and   "statement   B"?
c)what   is   the   relationships   between   point   and   circle   classes?
d)what is the relationships between point and mytype classes?

Solution

a) D method in class circle will override C method from base class;

b) A will be called on "const" objects, B will be called on objects without const modifier;

c) Point is base class ; Circle is derived class of point;

d) No relationships;