Assignment – Interface

Write an answer of below question and send it for review.

4]

```
Why the below code is showing compile time error?

interface X

void methodX();

class Y implements X

void methodX()

system.out.println("Method X");

}
```

Does below code compile successfully? If not, why?

```
2] interface A {
    int i = 111;
    }

class B implements A {
    void methodB() {
        i = 222;
    }
}
```

Is the following code written correctly?

```
3]

class A
{
//Class A
}

interface B extends A
{
//Interface B extending Class A
}
```

```
) What will be the output of the following program?
      interface P
 2
 3
          String p = "PPPP";
 4
          String methodP();
      interface Q extends P
 9
10
          String q = "QQQQ";
11
12
          String methodQ();
13
14
15
      class R implements P, Q
16
17
          public String methodP()
18
19
              return q+p;
20
21
          public String methodQ()
22
23
24
              return p+q;
25
      }
26
27
28
      public class MainClass
29
30
          public static void main(String[] args)
31
32
              R r = new R();
33
              System.out.println(r.methodP());
34
35
36
              System.out.println(r.methodQ());
37
```

```
) Is the below program written correctly? If yes, what will be the output?
     class A implements B
 1
 2
         public int methodB(int i)
 3
 4
 5
              return i =+ i * i;
 6
 /
 8
     interface B
9
10
         int methodB(int i);
11
12
13
     public class MainClass
14
15
         public static void main(String[] args)
16
17
              B b = new A();
18
19
              System.out.println(b.methodB(2));
20
21
22
```

- 6] What is an interface in Java?
- 7] Which modifiers are allowed for methods in an Interface?
- 8] Suppose A is an interface. Can we create an object using new A()?
- 9] Can an interface extends another interface in Java?