Assignment3 One

```
class Circle
  radious:number;
  PI:number=3.14;
  constructor(r:number)
    this.radious=r;
  }
  Area():number
   return this.PI*this.radious*this.radious;
 }
}
var objCircleOne = new Circle(11);
var ret:number=0;
ret =objCircleOne.Area();
console.log("Area of circle is "+ret);
var objCircleTwo = new Circle(40);
ret =objCircleTwo.Area();
console.log("Area of circle is "+ret);
D:\Angular\Assignments\3>node AreaOfCircle.js
Area of circle is 379.94
Area of circle is 5024
```

Two

```
class ArithmaticOperation
{
  Number1:number=0;
  Number2:number=0;
  public constructor(Value1:number, Value2:number)
   this.Number1=Value1;
   this.Number2=Value2;
 }
 Addition():number
   return this.Number1+this.Number2;
 }
 Substraction():number
 {
   return this.Number1-this.Number2;
 }
  Multiplication():number
 {
   return this.Number1*this.Number2;
 }
  Division():number
   return this.Number1*this.Number2;
 }
```

```
var obj=new ArithmaticOperation(20,10);
var ret = obj.Addition();

console.log("Addition is "+ret);

var ret = obj.Substraction();
console.log("Substraction is "+ret);

var ret = obj.Multiplication();
console.log("Multiplication is "+ret);

var ret = obj.Division();
console.log("Division is "+ret);
```

}

D:\Angular\Assignments\3>node Arithmatic.js Addition is 30 Substraction is 10 Multiplication is 200 Division is 200

Three

```
class Circle
{
  radious:number;
  PI:number=3.14;
  constructor(r:number)
    this.radious=r;
 }
  Area():number
   return this.PI*this.radious*this.radious;
 }
}
class CircleX extends Circle
{
  constructor(data:number)
 {
   super(data);
 }
  CalculateCircumference():number
 {
    return 2*this.PI*this.radious;
 }
}
var objCircle=new CircleX(12);
var ret:number=0;
```

```
ret=objCircle.Area();
console.log("Area of circle is "+ret);
ret=objCircle.CalculateCircumference();
console.log("Circumference of circle is "+ret);
```

D:\Angular\Assignments\3>node Circumference.js Area of circle is 452.1599999999997 Circumference of circle is 75.36