OOP-Task#1

Q1:

Create class Account that contains the following:

- Id
- Name
- Balance
- Default constructor
- Parameterized constructor
- Copy constructor
- Setters & getters
- printInfo() => method to print account information's
- TransferTo() => method that transfer particular amount of money from account to another one

- Your main should be as follow:

```
Account a(1,"name",1000);
Account b(a);
a.TransferTo(b,200);
a.printInfo(); // balance = 800
b.printInfo(); // balance = 1200
```

- Create class Student that contains the following:
 - \circ Id
 - Name
 - Mark[5] => to store 5 marks for student
 - Default constructor
 - Parameterized constructor
 - o setId, getId
 - setName, getName
 - o read_marks() => method that reads student marks
 - printInfo() => method print student's information (id , name and avg)
 - o calc_avg() => method that calc student avg and return it
- Define function get_max(), pass your array of objects to the function, and return the student that has maximum gpa.

- In main:

- Define an array of 3 elements of type Student .
- Ask the user to enter their information.
- Print information for the student that has a maximum gpa .

- Create class Point that contains the following:
 - \circ int x
 - o int y
 - o default & parameterized constructors
 - o setters & getters
- Create class Circle that consist of following :
 - Point center
 - Double radius
 - o default & parameterized constructors
 - o setters & getters
 - calcArea() => method calc area of circle and return it

• In main:

- define object from class Circle using parameterized constructor.
- define another object from class Circle and initialize it using first object, then print its area.