## **CSE 1116:** Object Oriented Programming Laboratory (MID QUIZ)

Time: **35 Minutes** (Including Submission on eLMS)

Total marks: 20

Write your code step by step according to the following instructions.

Create an abstract class **Chef.java**. It will contain the following elements:

- Four variables:
  - o name -> a string
  - o age -> an integer
  - skill\_level -> a string ("Good"/"Average"/"Poor")
  - salary -> a float number indicating the salary in USD
- Two constructor methods:
  - Default constructor with no parameters
  - Another constructor with 4 parameters for initialization
- Two concrete functions:
  - printChefInfo() -> This function will print the four variables in the format shown below.

## Print Format

Name of the chef: John, Age: 41, Skill level: Average, Salary: 102.50 USD

 upgradeSkill() -> If this function is called, the skill\_level of the chef will get one level higher than the current one.

Current Skill Level	Upgraded Skill Level
Poor	Average
Average	Good
Good	Good

- One abstract function:
  - o cookDish(): No definition required here

Now, create a class called PizzaChef.java which is a subclass of Chef. It will-

- define a constructor with 4 parameters. Use the super() method inside the constructor for initialization through the parent class.
- override cookDish() method. Inside the method, print this:

Chef XXXX is now cooking pizza!!!

[Here XXXX will be replaced by the chef's name].

Example: Chef Robert is now cooking pizza!!!

Finally, create a class called **TestChefs.java** which will contain the main() method. In the main(), create an instance of PizzaChef. Call and test all the available methods on the instance.