



FAST

الذي علم بالقلم. علم الانسان ما لم يعلم.

National University of Computer and Emerging Sciences

DEPARTMENT OF COMPUTER SCIENCE

Object Oriented Programming-Lab

Assignment-02



OOP-LAB: ASSIGNMENT-02

Due Date: 25-Jun-2021

- ☐ No late submissions will be entertained.
- ☐ All submissions should be made on Google Class Room.
- ☐ Emailed assignment will be marked as **0**.
- ☐ An individual/group may be assigned a **straight-forward 0** if the submitted assessed Home work is copied/cheated from another individual/group.
- ☐ Upload PDF File including all tasks code and output respectively and all .ccp files

Engr. Khuram Shahzad
(Instructor)

Task-01

Create a Class called employee that contains these members: an employee number (type int), employee name (type string), employee phone numbers (an int array of size=4), employee age (type int) and the employee's compensation (in dollars; type float). Include the following member functions for an employee:

- Default constructor
- Constructor with parameters
- Destructor
- Set function for each data member
- Get function (value-returning) for each data member
- Print function for each data member
- Update function for each data member

Ask the user to fill in the data for an array of three employees and then display the information for each employee on console.

Task-02

Write a class stringType with two member variables first and second of type string and following member functions:

- void setValues(string str1, string str2)
- void printValues()
- int maxLength()
- int compare(string s1, string s2)
- void copy(string source, string destination)
- string concatenate(string s1, string s2)
- int searchWord(string word)
- int searchChar(char ch)

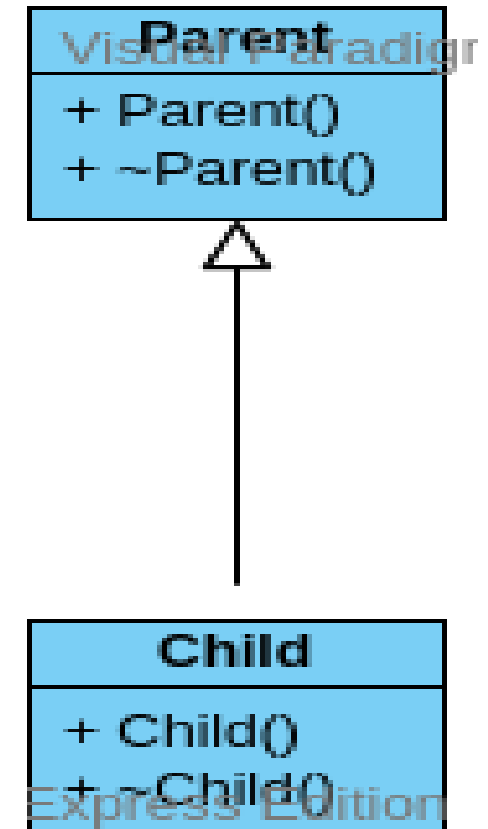
Note: don't use any library function, implement your logic! Also include the default and Parameterized constructor to initialize the member variable.

Task-03

Consider the below given diagram. The arrow shows that Child class is derived from Parent Class and + sign shows that the member function is public.

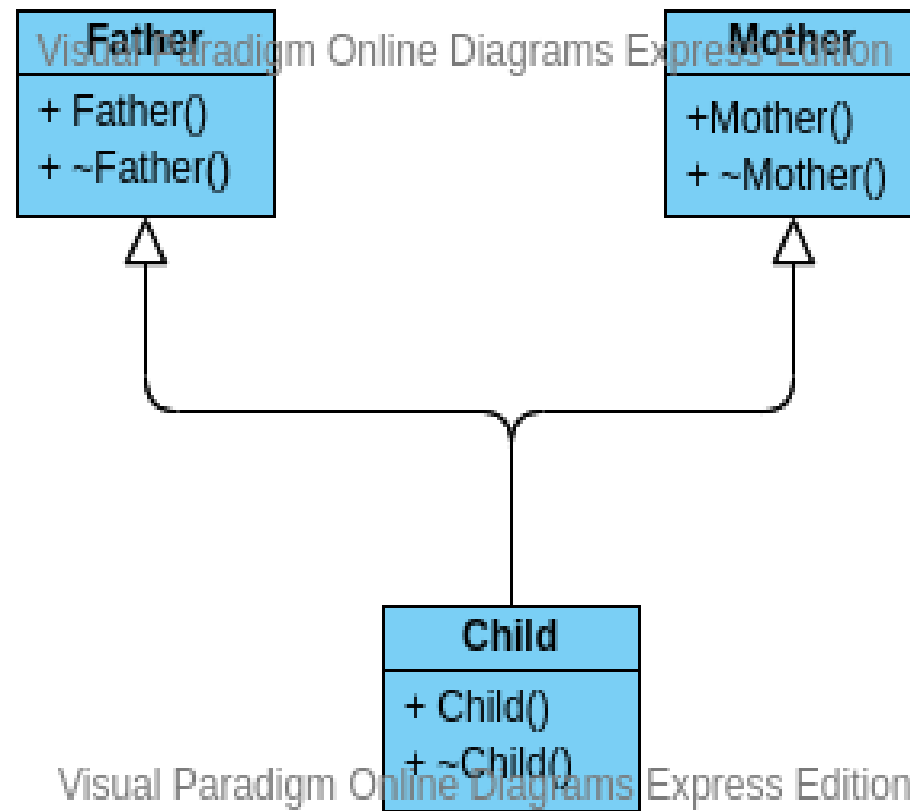
Constructor of parent class prints “i am Parent, i got a new life” and Destructor prints “I am Parent, i am going to die”.
Do the same for child class.

In main function declare an object of Child class and then delete it. Note how the constructors and destructors get called of child and parent classes.



Task-04

Consider the below given diagram. Do all the tasks state in **TASK 3** for these classes.



THANKS

