Software Development Fundamentals - TT Tutorial-11 Oops Concepts

Submitted To Ms. Shilpa Submitted By Shubham Garg 9919103057 Batch: F2

SHUBHAM GARG 9919103057 BATCH! F2

1. OUTPUTS

(i) Constautor Called

(ii) Before fun() called Constructor Called After fun() called

(iii) Before fun() called Constructor Called After fun() called

(iv) Stored End

include < iostruams
include < confo.h>
include < string.h>
include < stelio.h>
include < cstelio.h>
include < cstelio.h>
include < cstelio.h>
include < cstelio.h>
include < stelio.h>
using namespace stel;
class book

char auth_name[50]; char title[70]; float price; char publisher[60]; int stock_pos; (V) 10

(vi) 40

(Vii) Strl & NOIDA Strl & JUT

(vili) Normal Constructor called
Copy constructor called
Copy constructor called
Normal by Cunstructor called

```
2
      Shubham Gareg
                         9919103057
public!
    book()
       than *auth_name=new than [50];
       char * title= new char[70];
       char * publisher = new char [60];
        price = 0',
        8tock - pos = 0;
     void getdatal)
        couted "Enter author's name";
         Hlush ( stelin);
         gets (auth_name);
         fflush (stelly);
         coute < " Enter With ";
         fflush ( stelin );
         gets ( title);
          fflush (stelin);
          Coutce" Enter price of the book";
          an >> price;
          couter: "Enter Publisher's name";
          Iflush ( stolin);
          gets (publisher);
          fflush ( stelln);
          Couted " Enter no og books";
          Hewsh ( stelly );
           un>> stock_pos;
           cout << "\n";
```

```
3
        Shubham Goug 9919103057
  Int compare (enar [1], char author[])
     if (stremp Ctitle, t) It stremp ( outh_name, author))
            return 0;
     else
           return 1;
 Int getatock_posc)
 } beturn stock_pos;
  floor gerprice!)
  & schurn price;
  void printagal)
     went 200 The dutails of the book are In ";
      Coutee title: "<< lifte;
      cout << "In Author!" << auth_name;
      coutec "In Publisher: "<< publisher:
      coutce in Price: "Le price;
3 a[20];
int maln()
   those author [50];
   than E[50];
    int N;
   cout ce u Enter the no. of books ! ";
    un >> N;
    contec " Enter details of books to be searched";
     But n;
```

```
Shubham garg 9919103057
4
 for ( lit 120; 12N; 12+)
     alil-getdata();
 couter end;
 cource Enter the details of the books to be searched!";
  Hlush ( stalen);
 bout K " Enter Little";
  fflush ( stelin);
  'gete cti;
cout Le uEntre author";
   fflush ( stelin);
  gets(author);
   fflush (stain),
   for (Put 120; 1°CN; 1°++)
        if ( a [i]. compare (t, author))
             a (1º). printdata ();
             course in Enter required no of copies!";
              un>>n;
              ig(nc=ali). getstock_pa())
                  courze me books are available In";
                  conter Total prouver a l'il-get procecs.
              else
                couted uin sorry!!! In out of stocker;
         else
             couter " Books not in stock ... ";
      return 0',
```

```
5
           shubham garg 9919103057
   Hinclude (Postelam)
  It include (string)
   using namespece std',
   int c=0;
   clous Employee
     string 1_name;
     string 1-name;
     Int mealary!
    public:
      Employee (string first -name, string last-name, int sal)
          f-name = first-name!
           1- name = lost-name!
          msalary = sal;
          (++)
      voiled setf-name (string first-name)
           1_name = flost_nami;
      void sett_name ( string last_name)
          L- name = last- name;
      voild set_salary (int salary)
        msalary = salary;
```

```
9919103057
           Shubham Gareg
  string get-frame()
    return f-name;
  strong get_Inamil)
     return 1-name;
  Port get_salary()
     return . m salvy ;
  void in viewed - salary ()
       mealowy = mealowy + 0.1 * mealowy;
       set_salary ( mealary);
3,
int mount)
   Employee empl ("saif", "Zama", 200000),
   Employee emp2 (" shubham", "Garg", 9919103057);
    cont Lc4 The alreads of employees"
    cout < < "In Employee 1: "in"
    coutex "In Name! "<< empl. get: frame () << " << empl. get. box
    cource "In Month Solary"! "L< empl. ged_solary 1);
    coute ( "In Yearly Salary: " << 12 * employet_salary: );
    cout cc" In In Employee 2! In";
    cout L < "In Name!" < c emp2-get_fname < comp2-get_lname;
    cout EC In Month Salary " < c empr. get_salaryy.
    courted "In Yearly Salary 4cc 12k emp2. get_salary();
```

(

```
Đ
           Shubham Garg 9919103057
  empl. In weared -salary ();
  emp2. Provided - Salary (1)
  cout Lc " In rearly salary after 10 %. Thuras: ";
  contect in Employee 14K<4/n4<<12 employee_salary();
  Cout << "In Employee 2112< "In" << 12# emp2. get-salary ();
 couter No. of times objects are called! "<<c;
  octurn 0;
Horlude Closteram>
# include < string>
# Phelude < Stabool. h>
# include < stalib. h>
# include (stalio.h)
using namespace std;
class Document
   string text;
   publie:
      voild setText (string txt)
      string getlect()
¿ return text;
```

```
8
         Shubham Gaug 9919103057
class Émeuil: public Domment
     String sendur;
     String respient;
     String Litte;
    public!
       Emoul ( string and , string rue, string title)
             sendy = sndr;
             runpient = rui;
              title = title;
       void set-sendur (string sndo)
             ·sendur = Snd r;
       void set-reupient (strong mu)
            respient = ree;
      voild set title (storing atte)
            Hitle Hle;
      storing get-sendur()
           return sendu;
      string get-ruel)
        julum reulpient;
```

```
Shubham Gorg 9919103057
   string get_litle()
       return title;
closs file! public Domment
    string pathrame,
    public :
       Pile (string meg, string patn)
           pathname = path;
            setText (mag);
        vold set_path(string ptn)
           pathname = pth;
        string gct_path()
          . return pathname;
3;
     search - keyword (file o, string keyword)
8
      if (0. getText(). find (keyword) = string!! npos)
         rutum true;
     else
         whem false;
```

```
(3)
         Shubham Gary 9919103057
Int main ()
    storng sonder, rue, the, text, puth;
    loutex " enter sender's name!";
     un >> sndr;
    Cout << 4 Enter recliptent's name! ")
     un >> ue;
     Hush ( Stalin);
     cource Buter little!";
      un >> He;
      Hush ( stelin);
      cout ce Enter Rmail colotres! ";
      ur >> path;
      Helwh (skolin);
      cource" Enter mussage";
       Hlush (stouh);
       getline (cin, text);
       Husn (stalm);
       Email of Esndr, mer, thes!
        file 02 (text, path)
        coute 4 m n From! " << 01. get-sendly ();
        course un Fo'. " << 01. get-reecs;
        couter" mrite: "<< 01. get_ potenti;
        cout << \n Path! << 02. get_path();
        coute < " In In Lou << 02. get Text ();
       string keyword;
        ch>> buyword;
        Hush (stoun);
```

```
Shubham gang agrarosost

if ( search_keyword ( or, keyword))

cout << "\n found ";

else

tout << "\n Blement not found";

return 0;

I rend of main

- X - X - X - X - X -
```