```
Implement the Pollowing programs using struct:
0.1. Write a program of your choice to properly demonstrate
    the voage and differences of Local and Global variable!
  Source Code:
 # include {stdio.h>
 struct student &
     char name [50];
    intage;
     char sec;
  S1 = 5 6 Adifya", 19, 6 A? 3;
void myton ) }
Struct student of = f 66 Tanya", 20, 6893;
Printf ( so variable of of struct student declared locally : 12);
print ( 66 % 8, % d , % c \n" st. name, st. age, st. sec);
void main () }
   printf (" Variable of of struct student declared globally : 12);
   printf(66 %s, %d, %c \n', st. name, st. age, st. sec);
```

Output :-

3

my fun ();

variable st of struct student declared globally Aditya, 19, A variable st of struct student declared locally: Tanya, 20, B

```
Q.2. To demonstrate the usage and implementation of a struct. Accept an integer and display it.

Source Code:

## include Latdio.h>
struct NUM {

int n;

int n;

Print P ("Enter an integer: ");

Scant (66 % d?" & Data.n);

Print P ("The entered integer is : %d", Data.n);
```

Output :-Enter an integer : 10. The entered integer is : 10

```
Q.3. Apply struct to accept data of an employee mentioned
  below and also display them in a proper formalted manner;
 a. empId b. emp Name c. basic d. da: 25% of basic
 e. hra: 15% of basic P. ta: 10% of basic.
 g. gross: basic + da + hra + ta.
 Source Code:
 # include Latdio 6h>
Stroct employee?
     char emptd [20], emp Name [30];
     float basic, do, hra, ta, gross;
3;
void main () }
    Struct employee el;
   printf( & Enter name of employee: ??);
   fgets (el. empName, 30, stdin);
   print [66 Enter employee ID ; ");
   scanf (66 % 5 " el, empld);
   prints (60 Enter basic amount ; ");
    scanf ("6 % f)", & el. basic);
  et. da = 0,25 * et. basic, et. hra = 0.15 * basic;
  et. ta = 0.10 * et. basic ;
  et. gross = et. da + et. ta + et. basic + et. hra;
   printf ( 46 Name: 36 3) et. emp Name);
   print ( Employee ID: 765 h ", et. emp Id);
   print (66 Basic : Rs 7.27 m", et. basic);
   print F ( PA: Rs 7. 2 P \ 19, et. da);
   printf ( HRA: Rs % . 2P In", el. hra);
   printP ( TA : Ro 70.2P In 19, et. ta);
   printP( & Ciross : Rs 30.27 \n ", et gross);
```

Output :-

Enter name of employee; Aditya Kiran Pal

Enter employee Id: 20UCS119

Enter basic amount : 10000

Name : Aditya Kiran Pal

Employee 10: 20005119

Basic : 10000.00

DA : R2500.00

HRA: \$\$ 1500.00

TA : RS 1000,00

C11035 3 RS 15000 .00

0. 4. Implement struct to accept the data of three students (without using array of structure 1 pointer to structure) and dioplay them in proper formatted mannes. (c) istad Name. (a) en sollment no (d) studdem (D) regNO: (e) Stod COMPA Source Code ?-# include <oldiosh> Stouct student ? char envollment Mo[10], stud Name [20], stud Sem [15]; int regNo; Float stud CGIPA; 3 01,82,833 voidmain () } void main () } Print ("Enter Name, Enrolling, Reg, no, Sem, Capa for studen ! In?); scanf (" y, [" In]s", sto stud Name); scanf (" 700 %d 700 70 P.) of envolument No, &st. reg No, OI. Stud sem, USI. Stuck GIPA); printP(Enter Name, Enrolling., Reg. 10, Sem, CGIPA for student 2 m3) sconf (66 y. [~ In]s", 82. stud Name); ocant (" " " & d To 6 7. A" SZ. enrollment No, & 62. rcg No, S2. Stud Sem, &SZ. Stud CGIPA); printp(" Enter Name, Enroll.no., Reg. no., Sem, Corpa for ordered in"); scanf (is 7. [n In]s", s3, stud Name); scanf (66 1. 5 1.d 1.5 1. P 17, 83, enrollment No, &ss. Rorg No, 83. stud Sem, & 83. stud CGPA); point P(" Student 1 :- 10 ?); print F (" Name : 705 " stockhame); print P(" I for all mont no : % s | Registration no : % all 19, of. O1. enrollmentNo, ot. rgNo); point (" Somestro: 7.8 1 COMPA & 7,27 (nm, 52. studiom, of stude CORPA);

```
bosuft ( ce 8 to got 2: - 10 ") 3
 pointp (" Name: 70 8 ?, 62. stud Name);
 Print P ( 00 | Envollment no : 3/6 & 1 Registration no : 3/6 de 1)
 82. enrollment No, 82. reg No);
 Print ( & Semester : % & | CGPA: % A In", 52. studiscm,
  52. stud COMPA);
Point (66 Student 3: - In ");
 printp (" Name: %8 ", 60, ofed Name);
 printace l'envollment no : 7.5 | Registration no 3 % d In?3
  63. enrollment No, 68, 8cg No);
 printf ( * semalar: 755 1 chpA: 12P ", 63. otod Sem,
  BB. Stod COIPA) 3
Outpot :-
Enter Name, Enroll. no., Reg. no., sem, carpa for student 1
Aditya Kiran Pal
20006119 2012709 3rd 9675
Enter Name, Enrollino.; Regino., Sem, corpa for student 2
Tushan Ranjan Pal
20005100 2012690 Bid 9.8
Enter Name, Enrollno., Reg. no., bem, corpa for student 3
Aruncet Gian Chaudhari
200 CS 420 2012420 Bid 10.0
Student L3-
Name : Adity a Kiran Pal 1 Enrollment no : 20 DCS 119 1
 Registration no: 2012709
Semester: 3rd | GOPA: 9.75
 Stoden 1 2 3-
 Mame: Toshar Ranjan Pal | Enrollment no: 200[8100]
 Registration no: 2012 690
 semestro : 30d 1 OCAPA: 9.8
```

3

Stu

Na

1 Re

Se

Student 3:-

Name : Arvince+Gran Chaudhari 1 Enrollmentino: 20108420

1 Registration no: 2012420.

Semester: 3rd 1 CGPA: 10.00