**1.Program to take employee, his/her name, age, and salary using structure.**

Program:

#include <stdio.h>

#include<string.h>

struct employee

{

char name[50];

int age;

float salary;

};

int main()

{

struct employee obj;

printf("Enter the employee name: ");

gets(obj.name);

printf("Enter the employee age: ");

scanf("%d",&obj.age);

printf("Enter the employee salary: ");

scanf("%f",&obj.salary);

printf("\n\n\nThe name of the employee is %s. Age is %d. Salary is %f.",obj.name,obj.age,obj.salary);

return 0;

}

**OUTPUT:**

Text

Description automatically generated

**2.Write C program to read and print the student details using structure and Static Memory Allocation.( Name, roll, Perc)**

Program:

#include <stdio.h>

#include<string.h>

struct student

{

char name[50];

int roll;

float percentage;

};

int main()

{

struct student obj;

printf("Enter the student name: ");

gets(obj.name);

printf("Enter the student roll number: ");

scanf("%d",&obj.roll);

printf("Enter the student percentage: ");

scanf("%f",&obj.percentage);

printf("\n\n\nThe name of the student is %s. Roll number is %d. Percentage is %0.2f%",obj.name,obj.roll,obj.percentage);

return 0;

}

**OUTPUT:**

Text

Description automatically generated

**3.Write C program to read and print the 3 student details using array of structures (Name, roll, Perc)**

Program:

#include <stdio.h>

#include<string.h>

struct student

{

char name[50];

int roll;

float percentage;

};

int main()

{

struct student obj;

printf("Enter the student name: ");

gets(obj.name);

printf("Enter the student roll number: ");

scanf("%d",&obj.roll);

printf("Enter the student percentage: ");

scanf("%f",&obj.percentage);

printf("\n\n\nThe name of the student is %s. Roll number is %d. Percentage is %0.2f%",obj.name,obj.roll,obj.percentage);

return 0;

}

**OUTPUT:**

**Text

Description automatically generated**

**4. Write C program to read and print employee, his/her name, age, and salary using pointer to the structures.**

Program:

#include <stdio.h>

#include<string.h>

struct student

{

char name[50];

int roll;

float percentage;

};

int main()

{

struct student abc;

struct student \*obj;

obj=&abc;

printf("Enter the student name: ");

gets(obj->name);

printf("Enter the student roll number: ");

scanf("%d",&obj->roll);

printf("Enter the student percentage: ");

scanf("%f",&obj->percentage);

printf("\n\n\nThe name of the student is %s. Roll number is %d. Percentage is %0.2f%",obj->name,obj->roll,obj->percentage);

return 0;

}

**OUTPUT:**

**Text

Description automatically generated**

**5. Write C program to read and print the student details using structure and Dynamic Memory Allocation.( Name, roll, Perc)**

Program:

#include <stdio.h>

#include<string.h>

#include<stdlib.h>

typedef struct

{

char name[50];

int roll;

float percentage;

}student;

int main()

{

student \*obj=(student \*) malloc(sizeof(student));

printf("Enter the student name: ");

gets(obj->name);

printf("Enter the student roll number: ");

scanf("%d",&obj->roll);

printf("Enter the student percentage: ");

scanf("%f",&obj->percentage);

printf("\n\n\nThe name of the student is %s. Roll number is %d. Percentage is %0.2f%",obj->name,obj->roll,obj->percentage);

return 0;

}

**OUTPUT:**

Text

Description automatically generated

**6. Write C program to read and print the N student details using structure and Dynamic Memory Allocation. ( Name, roll, Perc)**

Program:

#include <stdio.h>

#include<string.h>

#include<stdlib.h>

typedef struct

{

char name[50];

int roll;

float percentage;

}student;

int main()

{

int n;

printf("Enter the number of students: ");

scanf("%d",&n);

student \*obj=(student \*) malloc(n\*sizeof(student));

for(int i=1;i<=n;i++)

{

printf("\n\nEnter details for student number %d:\n",i);

printf("Enter the student name: ");

getchar();

gets(obj[i-1].name);

printf("Enter the student roll number: ");

scanf("%d",&obj[i-1].roll);

printf("Enter the student percentage: ");

scanf("%f",&obj[i-1].percentage);

}

for(int i=1;i<=n;i++)

{

printf("\n\nDetalis for student %d",i);

printf("\nThe name of the student is %s. Roll number is %d. Percentage is %0.2f%",obj[i-1].name,obj[i-1].roll,obj[i-1].percentage);

}

return 0;

}

**OUTPUT:**

Text

Description automatically generated