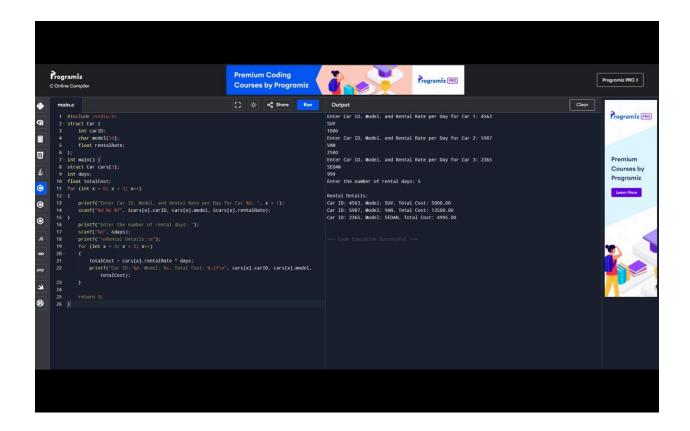


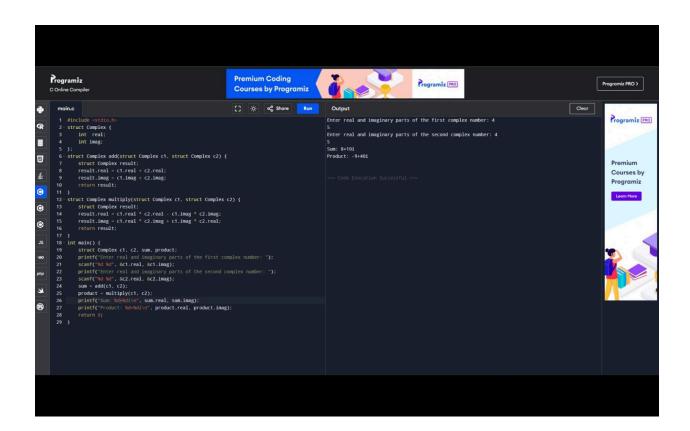
```
1).
#include<stdio.h>
struct std {
char name[100];
int age;
float marks;
};
int main(){
struct std std1,std2;float average;
printf("enter the information for student1\n");
printf("name:");
fgets(std1.name,100,stdin);
printf("age:");
scanf("%d",&std1.age);
printf("marks:");
scanf("%f",&std1.marks);
getchar();
printf("\nenter the information for student2\n");
printf("name: ");
fgets(std2.name,100,stdin);
printf("age:");
scanf("%d",&std2.age);
printf("marks:");
scanf("%f",&std2.marks);
```

```
printf("\nstudent1 information\n");
printf("name:%s",std1.name);
printf("age:%d\n",std1.age);
printf("marks:%f",std1.marks);
printf("\nstudent2 information\n");
printf("name:%s",std2.name);
printf("age:%d\n",std2.age);
printf("marks:%f\n",std2.marks);
average=(std1.marks+std2.marks)/2;
printf("average marks of two students is %f",average);
return 0;
}
```

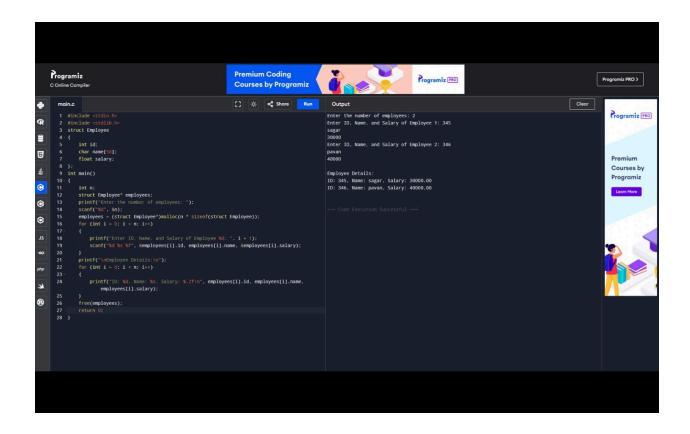


```
2).
#include <stdio.h>
struct Car {
  int carID;
  char model[50];
  float rentalRate;
```

```
};
int main() {
struct Car cars[3];
int days;
float totalCost;
for (int x = 0; x < 3; x++)
{
  printf("Enter Car ID, Model, and Rental Rate per Day for Car %d: ", x + 1);
  scanf("%d %s %f", &cars[x].carID, cars[x].model, &cars[x].rentalRate);
}
  printf("Enter the number of rental days: ");
  scanf("%d", &days);
  printf("\nRental Details:\n");
  for (int x = 0; x < 3; x++)
  {
     totalCost = cars[x].rentalRate * days;
     printf("Car ID: %d, Model: %s, Total Cost: %.2f\n", cars[x].carID, cars[x].model, totalCost);
  }
  return 0;
```



```
3).
#include <stdio.h>
struct Complex {
  int real;
  int imag;
};
struct Complex add(struct Complex c1, struct Complex c2) {
  struct Complex result;
  result.real = c1.real + c2.real;
  result.imag = c1.imag + c2.imag;
  return result;
struct Complex multiply(struct Complex c1, struct Complex c2) {
  struct Complex result;
  result.real = c1.real * c2.real - c1.imag * c2.imag;
  result.imag = c1.real * c2.imag + c1.imag * c2.real;
  return result;
}
int main() {
  struct Complex c1, c2, sum, product;
  printf("Enter real and imaginary parts of the first complex number: ");
  scanf("%d %d", &c1.real, &c1.imag);
  printf("Enter real and imaginary parts of the second complex number: ");
  scanf("%d %d", &c2.real, &c2.imag);
  sum = add(c1, c2);
  product = multiply(c1, c2);
  printf("Sum: %d+%di\n", sum.real, sum.imag);
  printf("Product: %d+%di\n", product.real, product.imag);
  return 0;
}
```



```
4).
#include <stdio.h>
#include <stdlib.h>
struct Employee
{
  int id;
  char name[50];
  float salary;
};
int main()
  int n;
  struct Employee* employees;
  printf("Enter the number of employees: ");
  scanf("%d", &n);
  employees = (struct Employee*)malloc(n * sizeof(struct Employee));
  for (int i = 0; i < n; i++)
  {
     printf("Enter ID, Name, and Salary of Employee %d: ", i + 1);
     scanf("%d %s %f", &employees[i].id, employees[i].name, &employees[i].salary);
  }
  printf("\nEmployee Details:\n");
  for (int i = 0; i < n; i++)
```

```
{
    printf("ID: %d, Name: %s, Salary: %.2f\n", employees[i].id, employees[i].name,
employees[i].salary);
  }
  free(employees);
  return 0;
}
```