1)

main.c

Run

Output

```c
#include <stdio.h>
#include <stdlib.h>
struct Person {
    char *name;
    int age;
};
int main()
{
    struct Person *p;
    p= ("struct Person");
    p->age = 30;
    printf("Name: %s\n", p->name);
    printf("Age: %d\n", p->age);
    free(p);
    return 0;
}
```

```
/tmp/jHZKi8gHWr.o
Segmentation fault
```

2)

c pro 1.cpp

```c

struct simp
{
    int i;
    char city[10];
};

int main()
{
    struct simp s1 = {6, "chennai"};

    printf("%s\n", s1.city);
    printf("%d\n", s1.i);

    return 0;
}
```

C:\Users\suris\OneDrive\Desktop\c pro 1.exe

```
chennai
6

--------------------------------
Process exited after 0.06276 seconds with return value 0
Press any key to continue . . .
```

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3)

c pro 1.cpp

```
    {
        char ceo[10];
    };

    struct zoho
    {
        int employees;
        char comp[5];
        struct founder p;
    };

    struct founder f = {"sridhar"};
    struct zoho zs = {4000, "zoho", f};
    printf("%s %d %s", zs.comp, zs.employees, zs.p.ceo);
    return 0;
}
```

C:\Users\suris\OneDrive\Desktop\c pro 1.exe

```
zoho 4000 sridhar
--------------------------------
Process exited after 0.05446 seconds with return value 0
Press any key to continue . . .
```

4)

c pro 4.cpp

```
#include<stdio.h>
int main(){
    int a = 130;
    char *ptr;
    ptr = (char *)&a;
    printf("%d ",*ptr);
    return 0;
}
```

C:\Users\suris\OneDrive\Desktop\c pro 4.exe

```
-126
--------------------------------
Process exited after 0.06481 seconds with return value 0
Press any key to continue . . .
```

5)

c pro 5.cpp

```c
#include <stdio.h>
#include <string.h>

#define MAX_EMPLOYEES 100

// Define a structure to represent an employee
struct employee {
    int eno;
    char ename[50];
    float salary;
};

int main() {
    int n, i;
    struct employee employees[MAX_EMPLOYEES];
    float max_salary = -1.0;  // Initialize max_salary
    int max_salary_employee_index = -1;
```

C:\Users\suris\OneDrive\Desktop\c pro 5.exe

```
Enter the number of employees: 2
Enter details of employee 1:
Employee Number: 192191018
Employee Name: teja
Employee Salary: 50000
Enter details of employee 2:
Employee Number: 192191827
Employee Name: varun
Employee Salary: 60000

Details of employee with highest salary:
Employee Number: 192191827
Employee Name: varun
Employee Salary: 60000.00

--------------------------------
Process exited after 68.91 seconds with return value 0
Press any key to continue . . .
```

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6)

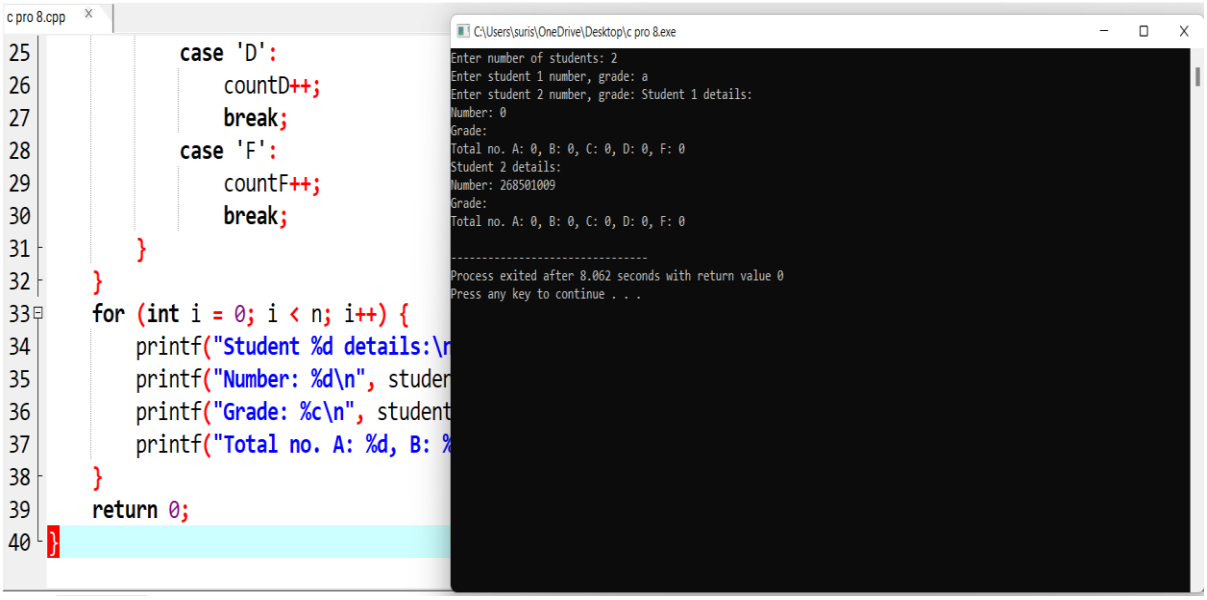
c pro 6.cpp

```c
int main() {
    struct Employee emp;
    struct Employee *empPtr = &emp;


    empPtr->empID = 101;
    strcpy(empPtr->empName, "John");
    empPtr->empSalary = 5000.50;


    printf("Employee ID: %d\n", empPtr->empID);
    printf("Employee Name: %s\n", empPtr->empName);
    printf("Employee Salary: %.2f\n", empPtr->empSala

    return 0;
}
```

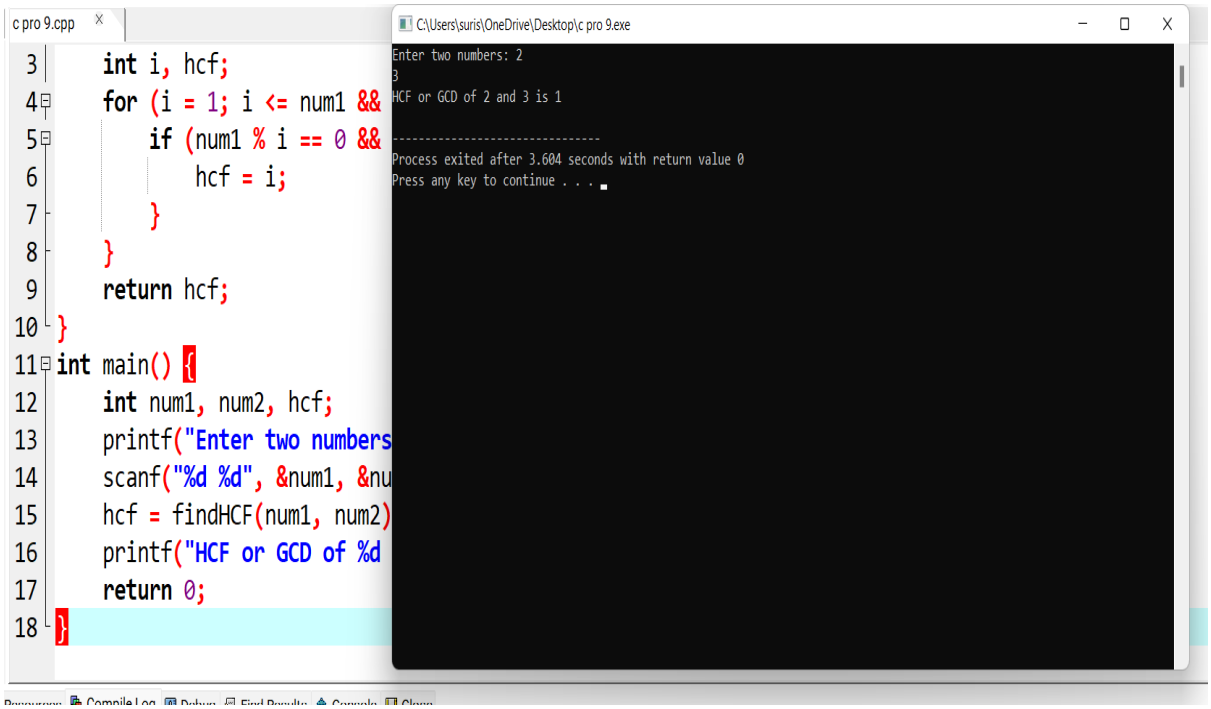
C:\Users\suris\OneDrive\Desktop\c pro 6.exe

```
Employee ID: 101
Employee Name: John
Employee Salary: 5000.50

--------------------------------
Process exited after 0.06446 seconds with return value 0
Press any key to continue . . .
```

8)


c pro 8.cpp
case 'D':
countD++;
break;
case 'F':
countF++;
break;
}
}
for (int i = 0; i < n; i++) {
printf("Student %d details:\n
printf("Number: %d\n", studer
printf("Grade: %c\n", student
printf("Total no. A: %d, B: %
}
return 0;
}
C:\Users\suris\OneDrive\Desktop\c pro 8.exe
Enter number of students: 2
Enter student 1 number, grade: a
Enter student 2 number, grade: Student 1 details:
Number: 0
Grade:
Total no. A: 0, B: 0, C: 0, D: 0, F: 0
Student 2 details:
Number: 268501009
Grade:
Total no. A: 0, B: 0, C: 0, D: 0, F: 0
Process exited after 8.062 seconds with return value 0
Press any key to continue . . .

9)


c pro 9.cpp
int i, hcf;
for (i = 1; i <= num1 &&
if (num1 % i == 0 &&
hcf = i;
}
}
return hcf;
}
int main() {
int num1, num2, hcf;
printf("Enter two numbers
scanf("%d %d", &num1, &nu
hcf = findHCF(num1, num2)
printf("HCF or GCD of %d
return 0;
}
C:\Users\suris\OneDrive\Desktop\c pro 9.exe
Enter two numbers: 2
3
HCF or GCD of 2 and 3 is 1
Process exited after 3.604 seconds with return value 0
Press any key to continue . . .

10)

c pro 10.cpp

```c
#include <stdio.h>
int main()
{
    char lowerCase, upperCase;

    printf("Enter a lower case letter: ");
    scanf("%c", &lowerCase);

    upperCase = lowerCase - 32;

    printf("The upper case letter is %c\n", upperCase);

    return 0;
}
```

```
Enter a lower case letter: 1
The upper case letter is ◄

--------------------------------
Process exited after 2.729 seconds with return value 0
Press any key to continue . . .
```

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