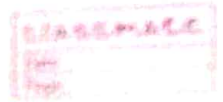


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Q write a program to print employee name, ID, salary using structures and also demonstrate the difference b/w structure and union in same question?

Ans →

```
#include <stdio.h>
int main()
{
    typedef struct employee;
    {
        int id;
        char name[20];
        float salary;
    } emp;
```

emp e1;

```
printf("Enter Name of employee\n");
scanf("%s", &e1.name);
```

```
printf("Enter id of employee\n");
scanf("%d", &e1.id);
```

```
printf("Enter salary\n");
scanf("%f", &e1.salary);
```

```
printf("Employee name is %s\n employee id is %d\n\n", e1.name, e1.id);
printf("and employee salary is %f\n", e1.salary);
```

```
printf("Size of structure is %lu\n", sizeof(emp));
```

union uempLOYEE

{

int id;

char name[20];

float salary;

} uemp;

printf("size of union is %.1u", sizeof(uemp));

return 0;

Input →

Enter name of Employee - Nits

Enter id of Employee - 2001

Enter salary of Employee - 70,000.00

Output →

Employee name - Nits

Employee id is 2001

Employee of structure is 70000.00

size of structure is 26

size of union is 20

Q2. WAP in C to illustrate working enumerators in C

```
sols #include <stdio.h>
enum week {Mon, Tues, Wed, Thurs, Fri, Sat, Sun};

int main()
{
    enum week day;
    day = Wed;

    printf("%d", day);

    return 0;
}
```

output → 2

Q3. WAP in C to print student details using union?

```
sols #include <stdio.h>
#include <string>
int main()
{
    union student
    {
        int age, roll no;
        char Name[100];
    } s1;

    strcpy(s1.Name, "Nites");
}
```



```
printf("Name of student is '%s'\n", s1.Name),  
s1.age = 10;  
printf("Age of student is %d\n", s1.age);  
s1.rollno = 2001;  
printf("Roll no. of student is %d\n", s1.rollno);  
return 0;  
}
```

output →

Name of student is Nitya  
Age of student is 10  
Rollno of student is 2001