(Assignment - 21)

① struct amployee
{
    int id;
    char name[20];
    int salary;
} amp1, amp2;

②

```
struct employee{
        int id;
        char name[20];
        int salary;
};
int main()
{
    int n;
    printf("enter number of amployee");
    scanf("%d", &n);
    struct amployee amp[n];
    int i;
    for(i=0; i<n; i++)
    {   printf("enter the amployee %d id"i+1);
        scanf("%d", &amp[i].id);
        printf("enter the amployee name");
        scanf("%s", &amp[i].name);
```

```
        printf("Enter employee salary");
        scanf("%d", &amp[i].salary);
    }
    printf("\n");
    for(i=0; i<n; i++)
    {
        printf("\n\n employee id %d details\n", i+1);
        printf("employee id is %d\n", amp[i].id);
        printf("employee name is %s\n", amp[i].name);
        printf("employee salary is %d\n" amp[i].salary);
    }
    return 0;
}
```

③

```
struct employee
{
    int id;
    char name[20];
    int salary;
};
int main()
{
    struct employee emp1;
    struct employee emp2;
    printf("employee 1 id is 12", emp1.id);
    printf("employee 1 name is aman", emp1.name);
    printf("employee 1 salary is 5500", emp1.salary);
```

```
printf("employee 2 id is 13", emp2.id);
printf("employee 2 name is lalu", emp2.name);
printf("employee 2 salary is 6500", emp2.salary);
return 0;
}
```

④

```
#include <stdio.h>
struct employee
{
    int salary;
};
int main()
{
    struct employee emp[10];
    int i, temp;
    for (i=0; i<10; i++)
        scanf("%d", &emp[i].salary);
    for (i=0; i<9; i++)
        If (emp1[i].salary < emp[i+1].salary)
            temp = emp[i+1].salary;

    printf("Highest salary is %d", temp);
    return 0;
}
```

(5)
```
struct employee {
    int salary;
    char name[20];
};
int main()
{
    struct employee emp1[10];
    int i, temp;
    for(i=0; i<10; i++)
        scanf("%d%s", &emp1[i].salary, emp1[i].name);
void sortsalary(struct employee emp[], int n)
{
    int i, j;
    struct employee temp;
    for (i=0; i<n-1; i++)
    {
        for (j=1+i; j<n; j++)
        {
            If (emp[i].salary > emp[j].salary)
                temp = emp[i];
                emp[i] = emp[j];
                emp[j] = temp;
```

```
    }
}
int main()
{
    struct employee emp1[10];
    int i, temp, j;
    for (i=0; i<10; i++)
    {
        printf ("Enter salary and name");
        scanf ("%d %s", &emp[i].salary, &emp[i].name);
    }
    sortsalary(emp1, 10);
    for (i=0; i<10; i++)
        printf("%d : %s\n", emp[i].salary,
                            emp1[i].name);
}
```

⑥
```
#include<stdio.h>
struct employee
{
    int salary;
    char name[20];
};
int main()
{
    struct employee emp1[10];
    int i, temp, j;
    for (i=0; i<10; i++)
    {
        printf("enter salary, name");
        scanf("%d %s", &emp1[i].salary, emp1[i].name);
    }
    sortname(emp1, 10);
    for (i=0; i<10; i++)
        printf("%d %s\n", emp1[i].salary,
                          emp1[i].name);
}
void sortname( struct employee emp[], int n)
{
    int i, j;
    struct employee temp;
    for(i=0; i<n-1; i++)
    {   for(j=1+i; j<n; j++)
        {   if(strcmp(emp[i].name, emp[j].name)>0)
            {   temp = emp[i];
                emp[i] = emp[j];
                emp[j] = temp;
            }
    }   }
```

(7)

```
struct date {
        int day;
        int month;
        int year;
};
int main()
{
    struct date d[2];
    int i, l, m, temp, P, q;
    printf("Enter day, month and year");
    for(i=0; i<2; i++)
            scanf("%d %d %d", &d[i].day, &[i].month
                                &d[i].year);

    for(i=0; i<2; i++)
    {       printf("\n\n date %d \n", i+1);
            printf("%d-%d-%d", d[i].day, d[i].month,
                                d[i].year);

    }
    for(i=0; i<1, i++)
    {       for (j=1; j<2; j++)
            {   if(d[i].day >= d[j].day)
                        l=d[i].day - d[j].day;

                else
                    {   l=d[j].day - d[i].day;
                        m=l- d[i].day;
                        l=0
```

```
If (d[i].month==4||d[i].month==6||d[i].month
   ==9, d[i].month==11)
        l=30-m;
   else if(d[i].month==2)
        l=28-m;
   else  l=31-m;
}
If (d[i].day<d[j].day)
{
  If (d[i].month-1-d[j].month)
      P=d[i].month-1-d[j].month;
  else {
      temp=12+d[i].month-1;
      P = temp-d[j].month;
      }
}
else{
    If (d[i].month >= d[j].month)
        P=d[i].month-d[j].month;
    else{
        temp=12+d[i].month;
        P = temp-d[j].month;
        }
}
If(d[i].month < d[j].month)
{
    If (d[i].year-1 > d[j].year)
        q=d[i].year-1-d[j].year;
    else
        q=d[i].year-d[j].year;
printf("\n date diff^n = %d-%d-%d", l, P, q);
}
}
```

⑧
```
struct student {
    int roll;
    char name[20];
};
int main()
{
    struct student stud[10];
    int i;
    printf("Enter Roll number and student name");
    for(i=0; i<10; i++)
        scanf("%d %s", &stud[i].roll, stud[i].name);
    for(i=0; i<10; i++)
        printf("%d : %s \n", stud[i].roll, stud[i].name);
}
```

⑨
```
struct student{
        int roll;
        char name[20];
};
int main()
{
    struct student stud[
    int n;
    printf("How many store data Enter");
    scanf("%d", &n);
    struct student stud[n];
    int i;
```

```
printf("Enter Roll number and student name");
for(i=0;i<n;i++)
        scanf("%od %os", &stud[i].roll, stud[i].name);
for(i=0;i<n;i++)
        scanf("%od %s", stud[i].roll, stud[i].name);
}
```

(10)
```
#include<stdio.h>
struct student
{
    int roll;
    Char name[20];
    int chem;
    int math;
    int phy;
};
int main()
{
    struct student stud[5];
    Int i, sum;
    float per;
    printf("enter roll number, name, chemistry mark,
            math mark, physics mark);
    for(i=0; i<5 ;i++)
        scanf("%od %os%od %od %od", &stud[i].roll,
            &stud[i].name, &stud[i].chem,
            &stud[i].math, &stud[i].phy);

    for(i=0;i<5;i++)
    {
        printf("\n\n student i.o %od\n", i+1);
        printf("student roll number i.s %od\n",
                stud[i].roll);
```

```
printf("student name is %s\n", stud[i].name);
printf("chemistry mark is out of 100 is %d\n" stud[i].chem);
printf("math mark is out of 100 is %d\n", stud[i].math);
printf("physics mark is out of 100 is %d\n", stud[i].phy);
sum = stud[i].chem + stud[i].math + stud[i].phy;
per = sum * 100 / 300;
printf("percentage is %f\n", per);
}
```