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ENROLL NO. – B65560

BATCH – B-7

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

union employee
{
    int id;
    char name[20];
    int age;
    float salary;
};

int main()
{
    union employee sanchit;

    for (int i = 0; i < 5; i++)
    {
        printf("Enter data for %d employee\n\n", i + 1);
        printf("Enter ID: ");
        scanf("%d", &sanchit.id);
        printf("ID of %d is %d\n", i + 1, sanchit.id);
        fflush(stdin);
        printf("Enter name: ");
        gets(sanchit.name);
        printf("Name of %d is %s\n", i + 1, sanchit.name);
        printf("Enter age: ");
        scanf("%d", &sanchit.age);
        printf("Age of %d is %d\n", i + 1, sanchit.age);
        printf("Enter salary: ");
        scanf("%f", &sanchit.salary);
        printf("Salary of %d is %f\n\n", i + 1, sanchit.salary);
    }
}
```

```
ID of 1 is 1
Enter name: Sanchit
Name of 1 is Sanchit
Enter age: 19
Age of 1 is 19
Enter salary: 20000
Salary of 1 is 20000.000000

Enter data for 2 employee

Enter ID: 2
ID of 2 is 2
Enter name: kartik
Name of 2 is kartik
Enter age: 19
Age of 2 is 19
Enter salary: 20000
Salary of 2 is 20000.000000

Enter data for 3 employee

Enter name: siddhant
Name of 4 is siddhant
Enter age: 20
Age of 4 is 20
Enter salary: 25000
Salary of 4 is 25000.000000

Enter data for 5 employee

Enter ID: 5
ID of 5 is 5
```

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

#include <string.h>

struct cricket_team{
    char playerName[20];
    char teamName[20];
    float battingAvg;
};

int main(void)
{
    struct cricket_team players[16];
    for (int i = 0; i < 16; i++)
    {
        printf("Enter Player Name : ");
        fflush(stdin);
        gets(players[i].playerName);
        printf("Enter Team Name : ");
        fflush(stdin);
        gets(players[i].teamName);
        printf("Enter Batting Average : ");
        scanf("%f",&players[i].battingAvg);
    }
    for (int i = 0; i < 16; i++)
    {
        if (strcmp(players[i].teamName, "India")==0)
        {
            printf("%s\t%s\t%0.2f\n", players[i].playerName,
players[i].teamName, players[i].battingAvg);
        }

    }
    for (int i = 0; i < 16; i++)
    {
        if (strcmp(players[i].teamName, "Pakistan")==0)
        {
            printf("%s\t%s\t%0.2f\n", players[i].playerName,
players[i].teamName, players[i].battingAvg);
        }

    }

}
```

```c
        printf("Enter Player Name : ");
        fflush(stdin);
        gets(players[i].playerName);
        printf("Enter Team Name : ");
        fflush(stdin);
        gets(players[i].teamName);
        printf("Enter Batting Average : ");
        scanf("%f",&players[i].battingAvg);
    }
    for (int i = 0; i < 16; i++)
    {
        if (strcmp(players[i].teamName, "India")==0)
        {
            printf("%s\t%s\t%0.2f\n", players[i].playerName
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
DHRUV PAKISTAN
Enter batting average50
Enter player's name
Enter team name
SANAT PAKISTAN
Enter batting average45
Enter player's name
Enter team name
FLORA INDIA
Enter batting average45
Enter player's name
Enter team name
```

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

void counter(char *p)
{
    int count = 0;
    for (int i = 0; i < *(p + i); i++)
    {
        if (*(p + i) != ' '){
            count++;
        }
    }
    printf("Total number of characters in a string: %d", count);
}

void reverse(char *p)
{
    int l, i;
    char t;
    for (l = 0; *(p + l); l++)
        ;
    for (i = 0; i < l / 2; i++)
    {
        t = *(p + i);
        *(p + i) = *(p + l - i - 1);
        *(p + l - i - 1) = t;
    }
}
int main()
{
    char string[100];
    printf("enter any sentence");
    printf("\n");
    gets(string);
    counter(string);
    printf("\n");
    reverse(string);
    puts(string);

    return 0;
}
```

```
 35    |    reverse(string):
```

```
enter any sentence
Sanchit jain
Total number of characters in a string: 11
niaj tihcnaS
PS C:\Users\jains\OneDrive\Desktop\vs code\college\labtest> []
```