```
#include <stdio.h>
      struct student{
          int r_no;
          char name[20];
          char course[20];
          int fees:
     };
      int main() {
                                                     A function declaration without a p
          struct student stud1,*ptr;
          ptr=&stud1;
          printf("Enter the details of the student:\nRoll Number: ");
          scanf("%d",&ptr->r_no);
          printf("Name: ");
          scanf("%s",ptr->name);
          printf("Course: ");
          scanf("%s",ptr->course);
          printf("Fee: ");
          scanf("%d",&ptr->fees);
          printf("\n\nDETAILS OF THE STUDENT\nROLL NUMBER: %d\n",ptr->r_no);
  21
          printf("NAME: %s\n",ptr->name);
          printf("COURSE: %s\n",ptr->course);
          printf("FEES: %d\n",ptr->fees);
          return 0;
Enter the details of the student:
Roll Number: 221011
Name: Siti
Course: Programming
Fee: 46.50
DETAILS OF THE STUDENT
ROLL NUMBER: 221011
NAME: Siti
COURSE: Programming
FEES: 46
Program ended with exit code: 0
```

**③** 🖁

```
typedef struct distance {
       int kms;
       int meters;
   } DISTANCE;
   DISTANCE addDistance(DISTANCE d1, DISTANCE d2);
   int main() {
                                                       A function declaration without a p
       DISTANCE d1 = \{0, 0\}, d2 = \{0, 0\}, d3 = \{0, 0\};
12
       int option;
       int inputFlag = 0;
       do {
            // Display the main menu
            printf("*******MAIN MENU********\n");
            printf("1. Input distances\n");
            printf("2. Add the distances\n");
            printf("3. EXIT\n");
21
            printf("Enter your option: ");
            scanf("%d", &option);
22
            printf("\n");
            switch (option) {
                case 1:
                    printf("Enter the first distance:\n");
                    printf("Kilometers: ");
                    scanf("%d", &d1.kms);
29
                    printf("Meters: ");
                    scanf("%d", &d1.meters);
                    printf("Enter the second distance:\n");
                    printf("Kilometers: ");
                    scanf("%d", &d2.kms);
                    printf("Meters: ");
36
                    scanf("%d", &d2.meters);
37
```

#include <stdio.h>

```
int main() {
                    inputFlag = 1;
                    printf("Distances input successfully!\n\n");
40
                    break;
               case 2:
                   if (inputFlag) {
                        d3 = addDistance(d1, d2);
                        printf("The sum is %d kms and %d meters\n\n", d3.kms, d3.meters);
46
                    } else {
                        printf("Please input distances first (Option 1)!\n\n");
                   break;
               case 3:
                    printf("Exiting the program. Goodbye!\n\n");
                   break;
               default:
                    printf("Invalid option! Please try again.\n\n");
57
                    break;
       } while (option != 3);
       return 0;
  }
   DISTANCE addDistance(DISTANCE d1, DISTANCE d2) {
       DISTANCE result;
       result.kms = d1.kms + d2.kms;
       result.meters = d1.meters + d2.meters;
       while (result.meters >= 1000) {
70
           result.meters = result.meters % 1000;
71
72
           result.kms += 1;
       }
75
       return result;
76
```

```
Enter your option: 1
Enter the first distance:
Kilometers: 30
Meters: 21
Enter the second distance:
Kilometers: 34
Meters: 35
Distances input successfully!
*******MAIN MENU******
1. Input distances
2. Add the distances
3. EXIT
Enter your option: 2
The sum is 64 kms and 56 meters
********MAIN MENU******
1. Input distances
2. Add the distances
```

\*\*\*\*\*\*\*\*MAIN MENU\*\*\*\*\*\*\*

Input distances
 Add the distances

3. EXIT

Invalid option! Please try again.

1. Input distances

2. Add the distances

Enter your option: 5

3. EXIT

3. EXIT

Enter your option: 3

Exiting the program. Goodbye!

Program ended with exit code: 0

```
Lab2_Task3 > = Lab2_Task3 > C main > No Selection
     #include <stdio.h>
     typedef struct distance {
         int kms;
         int meters;
     } DISTANCE;
     DISTANCE addDistance(int kms1, int meters1, int kms2, int meters2);
     int main() {
                                                       A function declaration without a prototy
         DISTANCE d1 = \{0, 0\}, d2 = \{0, 0\}, d3 = \{0, 0\};
  12
         int option;
         int inputFlag = 0;
         do {
              printf("*******MAIN MENU********\n");
              printf("1. Input distances\n");
              printf("2. Add the distances\n");
              printf("3. EXIT\n");
             printf("Enter your option: ");
             scanf("%d", &option);
  21
             printf("\n");
  22
  23
             switch (option) {
                  case 1:
                      printf("Enter the first distance in kms and meters: ");
                      scanf("%d %d", &d1.kms, &d1.meters);
                      printf("Enter the second distance in kms and meters: ");
  29
                      scanf("%d %d", &d2.kms, &d2.meters);
                      inputFlag = 1;
                      printf("Distances input successfully!\n\n");
                      break;
                  case 2:
  35
                      if (inputFlag) {
```

```
int main() {
               case 2:
                   if (inputFlag) {
                        d3 = addDistance(d1.kms, d1.meters, d2.kms, d2.meters);
                        printf("The sum is %d kms and %d meters\n\n", d3.kms, d3.meters);
                   } else {
                        printf("Please input distances first (Option 1)!\n\n");
                   }
                   break;
               case 3:
                    printf("Exiting the program. Goodbye!\n\n");
                    break;
47
               default:
                    printf("Invalid option! Please try again.\n\n");
                   break;
       } while (option != 3);
       return 0;
   }
   DISTANCE addDistance(int a, int b, int c, int d) {
       DISTANCE result;
       result.kms = a + c;
       result.meters = b + d;
       if (result.meters >= 1000) {
           result.kms += result.meters / 1000;
           result.meters = result.meters % 1000;
       }
       return result;
67
68
```

```
1. Input distances
2. Add the distances
3. EXIT
Enter your option: 4
Invalid option! Please try again.
********MAIN MENU******
1. Input distances
2. Add the distances
3. EXIT
Enter your option: 2
Please input distances first (Option 1)!
*******MAIN MENU******
1. Input distances
2. Add the distances
3. EXIT
Enter your option: 1
Enter the first distance in kms and meters: 34
23
Enter the second distance in kms and meters: 24
24
```

\*\*\*\*\*\*\*MAIN MENU\*\*\*\*\*\*

Distances input successfully!

- 2. Add the distances
- 2. Add the distances
- 3. EXIT

Enter your option: 1

Enter the first distance in kms and meters: 34 23 Enter the second distance in kms and meters: 24

24
Distances input successfully!

\*\*\*\*\*\*\*MAIN MENU\*\*\*\*\*\*

- Input distances
   Add the distances
- Add the distancesEXIT
- Enter your option: 2

The sum is 58 kms and 47 meters

- \*\*\*\*\*\*\*\*MAIN MENU\*\*\*\*\*\*
- 1. Input distances
- 2. Add the distances
- 3. EXIT

Enter your option: 3

Exiting the program. Goodbye!

Program ended with exit code: 0

