```
int account_no;
         char name[20];
         struct Account customer[N];
         for (int i = 0; i < n; i++)
             scanf("%d", &customer[i].account_no);
             printf("Enter name: ");
scanf(" %s", customer[i].name);
             printf("Enter balance: ");
         float max_balance = customer[0].balance;
         int max_index = 0;
              if (customer[i].balance > max_balance)
                  max_balance = customer[i].balance;
                  max_index = i;
         printf("Account number: %d\n", customer[max_index].account_no);
printf("Name: %s\n", customer[max_index].name);
printf("Balance: %.2f\n", customer[max_index].balance);
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/nestedStructure_and_Union main!
• $ cd "/home/manish/vs-code/bca-programming-repo/C/nestedStructure_and_Union/" && gcc quest
  question1
How many customers: 4
  Enter data for customer 1.
  Enter account no: 1234
  Enter name: Ram
Enter balance: 20000
  Enter data for customer 2.
  Enter account no: 21345
Enter name: Shyam
  Enter balance: 40000
  Enter data for customer 3.
  Enter account no: 32154
Enter name: Sima
  Enter balance: 65000
  Enter data for customer 4.
  Enter account no: 5412
Enter name: Grishma\
  Enter balance: 100000
  Customer having highest balance:
  Account number: 5412
  Name: Grishma\
  Balance: 100000.00
  manish@fedora: ~/vs-code/bca-programming-repo/C/nestedStructure_and_Union main!
○$
```

```
8 #define NUM 5
                       int dd:
                     char name[20];
char faculty[10];
struct DOB date_of_birth;
                                 printf("\nEnter data for student %d:\
printf("Enter roll number: ");
scanf("%d", &s[i].roll_no);
printf("Enter name: ");
scanf(" %s", s[i].name);
printf("Enter faculty: ");
scanf(" %s", s[i].faculty);
printf("Enter day: ");
scanf("%d", &s[i].date_of_birth.dd);
printf("Enter month: ");
scanf("%d", &s[i].date_of_birth.mm);
                                  print((Enter month: ");
scanf("%d", &s[i].date_of_birth.mm);
printf("Enter year: ");
scanf("%d", &s[i].date_of_birth.yy);
printf("\n");
                                               printf("Roll no: %d\n", s[i].roll_no);
printf("Name: %s\n", s[i].name);
printf("Faculty: %s\n", s[i].faculty);
printf("Date of birth: %d-%d\n", s[i].date_of_birth.yy, s[i].date_of_birth.mm, s[i].date_of_birth.dd);
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/nestedStructure_and_Union main!
• $ ./question2
  Enter data for student 1:
  Enter roll number: 13
  Enter name: Manish
  Enter faculty: BCA
Enter day: 8
  Enter month: 6
  Enter year: 2002
  Enter data for student 2:
  Enter data for State
Enter roll number: 1
Enter name: Benjamin
Enter faculty: CSIT
  Enter day: 8
  Enter month: 8
  Enter year: 2000
  Enter data for student 3:
  Enter roll number: 13
  Enter name: Grishma
  Enter faculty: CSIT
Enter day: 9
  Enter month: 8
  Enter year: 2003
  Enter data for student 4:
  Enter roll number: 14
Enter name: Milan
Enter faculty: Electrical
  Enter day: 2
  Enter month: 3
  Enter year: 2000
  Enter data for student 5:
Enter roll number: Bishal
  Enter name: Enter faculty: CSIT
Enter day: 2
Enter month: 2
  Enter year: 2002
  Student records of BCA Faculty:
  Roll no: 13
  Name: Manish
  Faculty: BCA
Date of birth: 2002-6-8
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/nestedStructure_and_Union main!
$ ./question3
Enter name: Think Like a Monk
Enter number of pages: 550
Enter price: 750.54

Enter name: The Monk Who Sold His Ferrahari
Enter number of pages: 320
Enter price: 340

Book Details:
Name: Think Like a Monk
Total Pages: 550
Price: 750.54

Name: The Monk Who Sold His Ferrahari
Total Pages: 320
Price: 340.00
```

```
#define N 4
            char name[20];
            int grade;
            char gender;
            int age;
             struct Student s[N];
                      // Display menu options
printf("\nMenu Driven Program\n");
printf("1. Enter student information\n");
printf("2. Display names of all male students\n");
printf("3. Exit\n");
printf("Enter your option: ");
scanf(" %c", &option);
                                             printf("\nInformation for st
printf("Roll: ");
scanf("%d", &s[i].roll);
printf("Name: ");
scanf("%s", s[i].name);
printf("Grade: ");
scanf("%d", &s[i].grade);
printf("Gender (M/F): ");
scanf(" %c", &s[i].gender);
printf("Age: ");
scanf("%d", &s[i].age);
                                                if (s[i].gender == 'M')
                       // Ask user if they want to continue printf("Do you want to continue? (y/n): "); scanf(" %c", &choice);
            return 0;
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/nestedStructure_and_Union main!
• $ ./question4
 Menu Driven Program
  1. Enter student information
  2. Display names of all male students
 Enter your option: 1
Enter information for 4 students
  Information for student 1:
  Roll: 1
 Name: Benjamin
 Grade: 13
Gender (M/F): M
Age: 22
  Information for student 2:
  Roll: 2
 Name: Grishma
 Grade: 14
 Gender (M/F): F
Age: 22
  Information for student 3:
 Roll: 3
Name: Milan
  Grade: 16
 Gender (M/F): M
Age: 23
  Information for student 4:
  Roll: 4
 Name: Bibechana
  Grade: 4
 Gender (M/F): F
 Age: 10
 Do you want to continue? (y/n): y
 Menu Driven Program
  1. Enter student information
  2. Display names of all male students
  3. Exit
 Enter your option: 2
 Names of all male students:
  Benjamin
  Milan
 Do you want to continue? (y/n): y
 Menu Driven Program
  1. Enter student information
  2. Display names of all male students
  3. Exit
  Enter your option: 3
```

```
1 // Program to demonstrate the use of union.
   #include <stdio.h>
   // Define a union named Student
   union Student
        char name[20];
        int roll_no;
        float marks;
   };
   int main()
        printf("Enter the name: ");
        scanf("%[^\n]s", s.name);
        printf("Name: %s\n", s.name);
       printf("Enter roll no: ");
        scanf("%d", &s.roll_no);
        printf("Roll no: %d\n", s.roll_no);
        printf("Enter marks: ");
        scanf("%f", &s.marks);
        printf("Marks: %.2f\n", s.marks);
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/nestedStructure_and_Union main!

$ ./question5
Enter the name: Manish
Name: Manish
Enter roll no: 13
Roll no: 13
Enter marks: 99.99
Marks: 99.99

manish@fedora: ~/vs-code/bca-programming-repo/C/nestedStructure_and_Union main!

$ \[ \bigcup \]
```