```
C20220310351009700amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical1.c -o practical1
C20220310351009700amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical1
Student Name: Angat Shah
Branch: B.Tech. Computer Science and Engineering
Enrollment Number: 20220310351009
C20220310351009700amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C20220310351O097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical2_1.c -o practical2_1
C20220310351O097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical2_1
Enter the value of radius for area of circle: 11
The Area of circle is 379.94.
C20220310351O097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ 
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical2_2.c -o practical2_2
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical2_2
Enter the value of radius for volume of cylinder: 11
Enter the value of height of cylinder: 5
The Volume of cylinder is 1899.70.
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical3.c -o practical3
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical3
Enter the value of temperature in fahrenheit: 32
The value of temperature is 0.00 in celsius.
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical4.c -o practical4
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical4
Enter the date: 3
Enter the month: 11
Enter the year: 1995
NOVEMBER.
3/1995
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C2022031035I0097@amtics-H3l0M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical5.c -o practical5
C2022031035I0097@amtics-H3l0M-S2-2-0:~/Desktop/Practicals/Input$ ./practical5
Enter an integer: 25
25 is divisible by 5.
C2022031035I0097@amtics-H3l0M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C20220310351l0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical6.c -o practical6
C20220310351l0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical6
Enter the current date: 24
Enter the current month: 12
Enter the current year: 2022
Enter the birth date: 3
Enter the birth month: 11
Enter the birth year: 1995
Your age is 27 years, 1 months, 21 days.
C20220310351l0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C2022031035I0097@amtics-H3I0M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical7.c -o practical7
C2022031035I0097@amtics-H3I0M-S2-2-0:~/Desktop/Practicals/Input$ ./practical7
Enter your marks(0-100): 99
DISTINCTION.
C2022031035I0097@amtics-H3I0M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical8.c -o practical8
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical8
Enter the number of the day: 7
SUNDAY.
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical9.c -o practical9
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical9
Enter the number of terms: 7
Fibonacci Series: 0 1 1 2 3 5 8
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C20220310351009700amtics-H31OM-S2-2-0:~/Desktop/Practicals/Input$ gcc practical10.c -o practical10
C20220310351009700amtics-H31OM-S2-2-0:~/Desktop/Practicals/Input$ ./practical10
Enter a number: 123456
Sum of first and last digit number is = 7.
C20220310351009700amtics-H31OM-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs$ gcc practical11 1.c -o practical11 1
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs$ ./practical11 1
1
12
123
1234
12345
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs$
```

```
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical11 2.c -o practical11 2
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical11 2
    *
   * *
  * * *
 * * * *
* * * * *
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs gcc practical11_3.c -o practical11_3
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs ./practical11_3
  *
  * *
  * * *
  * * * *
  * * * * *
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical11 4.c -o practical11 4
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical11 4
ABCDE
ABCD
ABC
AB
A
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ 
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical12.c -o practical12
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical12
Enter the number: 7
Sum of first 7 number is 28
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C20220310351O0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs$ gcc practical13.c -o practical13
C20220310351O0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs$ ./practical13
Enter the value of x and y: 7
11
Before Swapping
Value of x is 7 and y is 11
After Swapping
Value of x is 11 and y is 7
C20220310351O0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Inputs$
```

```
C20220310351097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical14.c -o practical14
C20220310351097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical14
Enter string: Angat
Angat in upper case is ANGAT.
C20220310351097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical15.c  -o practical15
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical15
Enter the roll number of the student: 1
Enter the marks of roll number 1: 45
Enter the roll number of the student: 2
Enter the marks of roll number 2: 41
Enter the roll number of the student: 3
Enter the marks of roll number 3: 47
Enter the roll number of the student: 4
Enter the marks of roll number 4: 49
Enter the roll number of the student: 5
Enter the marks of roll number 5: 50
Enter the roll number of the student: 6
Enter the marks of roll number 6: 40
Enter the roll number of the student: 7
Enter the marks of roll number 7: 32
Enter the roll number of the student: 8
Enter the marks of roll number 8: 39
Enter the roll number of the student: 9
Enter the marks of roll number 9: 46
Enter the roll number of the student: 10
Enter the marks of roll number 10: 41
Enter the roll number of the student: 11
Enter the marks of roll number 11: 42
Enter the roll number of the student: 12
Enter the marks of roll number 12: 46
Enter the roll number of the student: 13
Enter the marks of roll number 13: 47
Enter the roll number of the student: 14
Enter the marks of roll number 14: 38
Enter the roll number of the student: 15
Enter the marks of roll number 15: 37
Enter the roll number of the student: 16
Enter the marks of roll number 16: 40
Enter the roll number of the student: 17
Enter the marks of roll number 17: 45
Enter the roll number of the student: 18
Enter the marks of roll number 18: 49
```

Enter the marks of roll number 12: 46
Enter the roll number of the student: 13
Enter the marks of roll number 13: 47
Enter the roll number of the student: 14
Enter the marks of roll number 14: 38
Enter the roll number of the student: 15
Enter the marks of roll number 15: 37
Enter the roll number of the student: 16
Enter the marks of roll number 16: 40
Enter the roll number of the student: 17
Enter the marks of roll number 17: 45
Enter the roll number of the student: 18
Enter the marks of roll number 18: 49
Enter the roll number of the student: 19
Enter the marks of roll number 19: 50
Enter the roll number of the student: 20
Enter the marks of roll number 20: 45

Marks of Roll Number 1 is 45.
Marks of Roll Number 2 is 41.
Marks of Roll Number 3 is 47.
Marks of Roll Number 4 is 49.
Marks of Roll Number 5 is 50.
Marks of Roll Number 6 is 40.
Marks of Roll Number 7 is 32.
Marks of Roll Number 8 is 39.
Marks of Roll Number 9 is 46.
Marks of Roll Number 10 is 41.
Marks of Roll Number 11 is 42.
Marks of Roll Number 12 is 46.
Marks of Roll Number 13 is 47.
Marks of Roll Number 14 is 38.
Marks of Roll Number 15 is 37.
Marks of Roll Number 16 is 40.
Marks of Roll Number 17 is 45.
Marks of Roll Number 18 is 49.
Marks of Roll Number 19 is 50.
Marks of Roll Number 20 is 45.
C2022031035I0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$

```
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical16_1.c -o practical16_1
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical16_1
Enter number of elements you want to sort: 5
Enter 5 integers
11
25
97
5
0

Bubble sort for the given order is
0
5
11
25
97
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical16_2.c -o practical16_2
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical16_2
Enter number of elements: 5
Enter 5 integers.
11
4
5
95
3
Sorted list in ascending order:
3
4
5
11
95
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Practicals/Input$ gcc practical17.c -o practical17
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Practicals/Input$ ./practical17

Enter the first string: angat
Enter the second string: yash
The length of first string is 5
The length of second string is 4
Result of comparison of both the string is -24
The concatenation of both the string is angatyash
Result of copying one string to other is yash
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical20.c -o practical20
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical20
>>>Enter times 1 :
>Enter hour :1
>Enter minute :20
>Enter second :30
>>>Enter times 2 :
>Enter hour :2
>Enter minute :30
>Enter second :40
>>>Enter times 3 :
>Enter hour :3
>Enter minute :20
>Enter second :20
>>>Enter times 4 :
>Enter hour :4
>Enter minute :20
>Enter second :10
>>>Enter times 5 :
>Enter hour :6
>Enter minute :2
>Enter second :20

->Time 1 :1:20:30
->Time 2 :2:30:40
->Time 3 :3:20:20
->Time 4 :4:20:10
->Time 5 :6:2:20
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C2022031035109097@amtics-H3I0M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical21.c -o practical21
practical21.c: In function 'main':
practical21.c:10:41: warning: format '%d' expects argument of type 'int', but argument 2 has type 'int *' [-Wformat=]
   10 |      printf("Address of variable 'a' is %d\n",p);
      |                                         ~^       ~
      |                                          |       |
      |                                          int     int *
      |                                         %ls
C2022031035109097@amtics-H3I0M-S2-2-0:~/Desktop/Practicals/Input$ ./practical21
Address of variable 'a' is 1736936428
C2022031035109097@amtics-H3I0M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical22.c -o practical22
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical22
Enter the value of a: 5
Enter the value of b: 11
Before Swapping
The value of a is 5 and value of b is 11
After Swapping
The value of a is 11 and value of b is 5
C2022031035100097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical23.c -o practical23
practical23.c: In function 'main':
practical23.c:11:35: warning: format '%d' expects argument of type 'int', but argument 2 has type 'char *' [-Wformat=]
   11 |     printf("character address is %d",p1);
      |                                  ~^      ~~
      |                                   |       |
      |                                  int     char *
      |                                  %S

practical23.c:16:21: warning: format '%d' expects argument of type 'int', but argument 3 has type 'char *' [-Wformat=]
   16 |         printf("%d=%d \n",i,p2[i]);
      |                    ~^          ~~~~~
      |                     |           |
      |                    int         char *
      |                    %S

C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical23
character address is 1975957631=1975975831
2=1975975830
3=-1920351651
4=-626965784
5=-1920351728
6=0
7=-1920352128
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical24.c -o practical24
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical24
Enter number of elements you want to sort: 5
Enter element 1: 11
Enter element 2: 5
Enter element 3: 95
Enter element 4: 69
Enter element 5: 0
Sorted array is:
0 5 11 69 95
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical25.c -o practical25
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical25
//Branch: B.Tech Computer Science and Engineering
//Name: Angat Nayanbhai Shah
//Enrollment No:20220310351009
#include<stdio.h>
int main()
{
    float C,F;
    printf("Enter the value of temperature in fahrenheit: ");
    scanf("%f",&F);
    C=(F-32)*5/9;
    printf("The value of temperature is %.2f in celsius.\n",C);
    return 0;
}
C20220310351009@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C20220310351L0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical26.c -o practical26
C20220310351L0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical26
Enter the filename to open for reading
practical3.c
Enter the filename to open for writing
copy.txt

Contents copied to copy.txt
C20220310351L0097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ 
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical18.c -o practical18
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical18
Enter number of persons: 2

Enter 1 Person Name : ANGAT

Enter Person Date of Joining (dd-mm-yy) : 031295

Enter Person Salary : 20000

Enter 2 Person Name : YASH

Enter Person Date of Joining (dd-mm-yy) : 090404

Enter Person Salary : 20000

Person 1 Detail:
Name = ANGAT
Date Of Joining = 031295
Salary = $20000.00

Person 2 Detail:
Name = YASH
Date Of Joining = 090404
Salary = $20000.00

C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical19.c -o practical19
practical19.c: In function 'main':
practical19.c:27:8: warning: implicit declaration of function 'strcmp' [-Wimplicit-function-declaration]
  27 |    if(strcmp(s[j-1].Team_name,s[j].Team_name)>0)
     |       ^~~~~~
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical19

Enter data of 5 players
Enter Player_name Team_name Batting_Avg for player-1 = ANGAT
INDIA
200

Enter Player_name Team_name Batting_Avg for player-2 = YASH
INDIA
198

Enter Player_name Team_name Batting_Avg for player-3 = PINKESH
INDIA
188

Enter Player_name Team_name Batting_Avg for player-4 = ROHIT
INDIA
155

Enter Player_name Team_name Batting_Avg for player-5 = ABHI
INDIA
220

After teamwise sorting... Player list is

Player Names Team Name Batting Average

ANGAT        INDIA         200.00
YASH         INDIA         198.00
PINKESH      INDIA         188.00
ROHIT        INDIA         155.00
ABHI         INDIA         220.00
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```

```
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ gcc practical27.c -o practical27
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$ ./practical27
Enter the number of chracters inside the string.
5
Enter string
ANGAT
String entered
ANGAT
Enter new size
4
Enter new string
YASH
New string
YASH
C202203103510097@amtics-H310M-S2-2-0:~/Desktop/Practicals/Input$
```