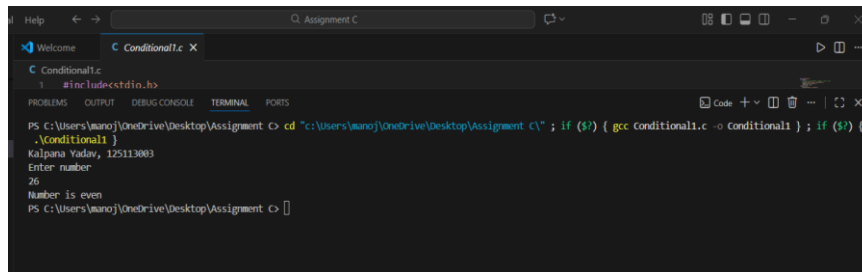


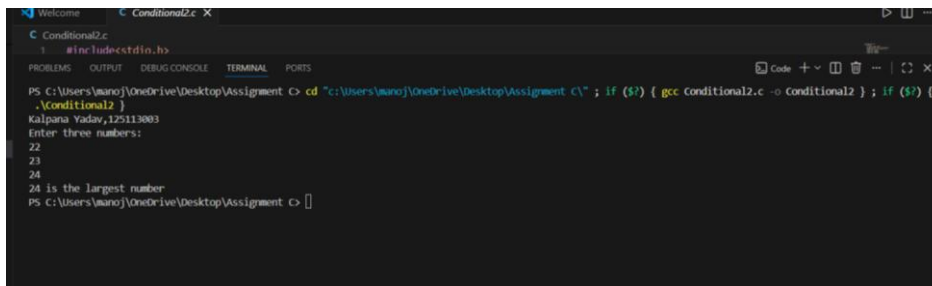
Conditional:

1.



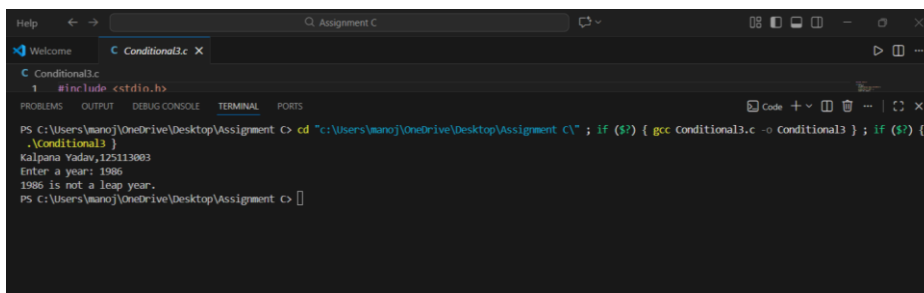
```
Help  ← →  Assignment C
C Conditional1.c X
1 #include <stdio.h>
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Conditional1.c -o Conditional1 }; if ($?) {
.\Conditional1 }
Kalpana Yadav, 125113003
Enter number:
26
Number is even
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

2.



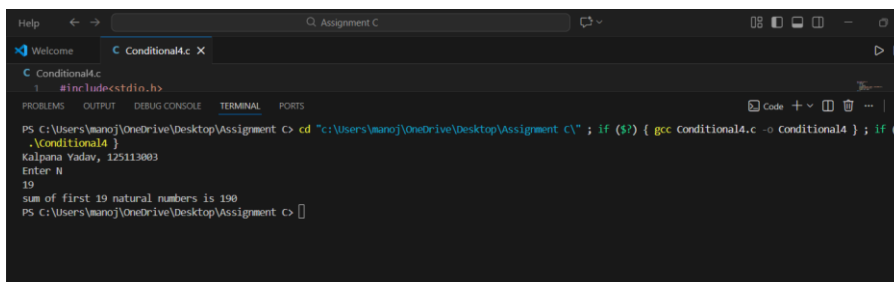
```
Help  ← →  Assignment C
C Conditional2.c X
1 #include <stdio.h>
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Conditional2.c -o Conditional2 }; if ($?) {
.\Conditional2 }
Kalpana Yadav,125113003
Enter three numbers:
22
23
24
24 is the largest number
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

3.



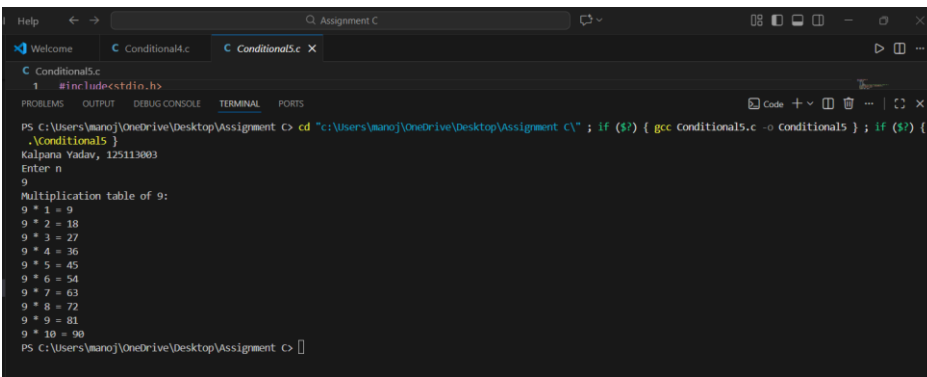
```
Help  ← →  Assignment C
C Conditional3.c X
1 #include <stdio.h>
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Conditional3.c -o Conditional3 }; if ($?) {
.\Conditional3 }
Kalpana Yadav,125113003
Enter a year: 1986
1986 is not a leap year.
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

4.



```
Help  ← →  Assignment C
C Conditional4.c X
1 #include <stdio.h>
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Conditional4.c -o Conditional4 }; if ($?) {
.\Conditional4 }
Kalpana Yadav, 125113003
Enter N:
19
sum of first 19 natural numbers is 190
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

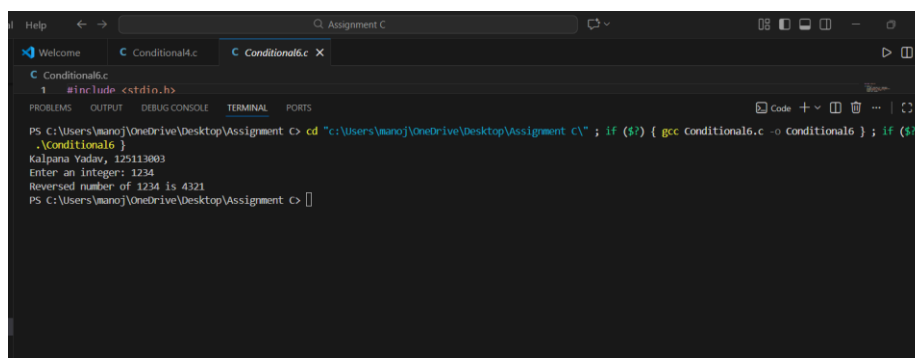
5.



```
Help  ← →  Assignment C
C Conditional5.c
1 #include <stdio.h>

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Conditional5.c -o Conditional5 }; if ($?) {
.\Conditional5 }
Kalpana Yadav, 125113003
Enter n
9
Multiplication table of 9:
9 * 1 = 9
9 * 2 = 18
9 * 3 = 27
9 * 4 = 36
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
9 * 10 = 90
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

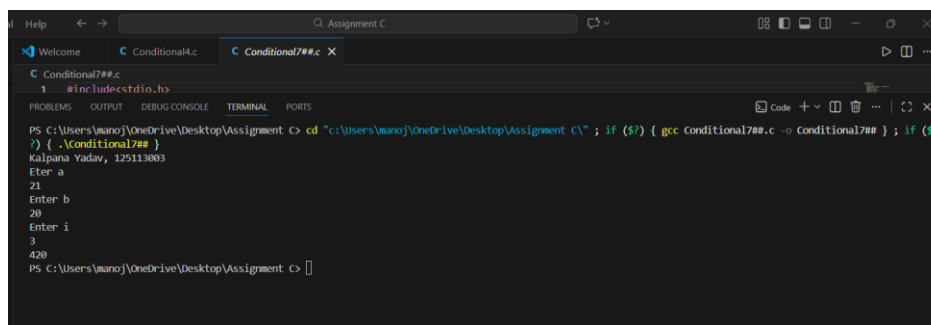
6.



```
Help  ← →  Assignment C
C Conditional6.c
1 #include <stdio.h>

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc conditional6.c -o Conditional6 }; if ($?) {
.\Conditional6 }
Kalpana Yadav, 125113003
Enter an integer: 1234
Reversed number of 1234 is 4321
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

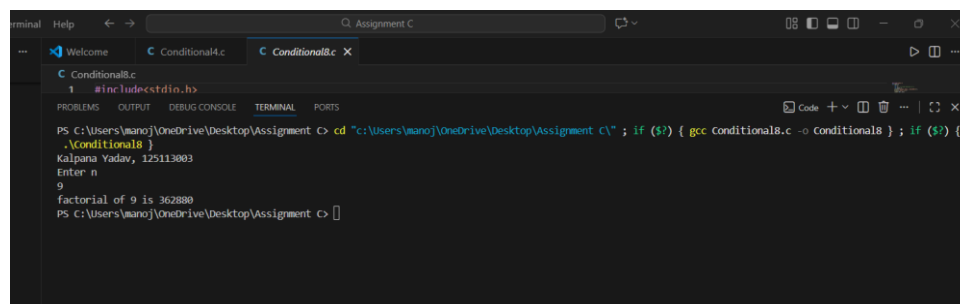
7.



```
Help  ← →  Assignment C
C Conditional7##.c
1 #include <stdio.h>

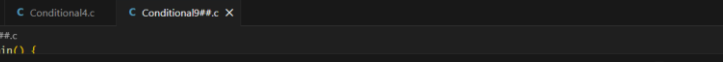
PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc conditional7##.c -o Conditional7## }; if ($?) {
.\Conditional7## }
Kalpana Yadav, 125113003
Enter a
21
Enter b
20
Enter i
3
420
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

8.



```
terminal Help  ← →  Assignment C
C Conditional8.c
1 #include <stdio.h>

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Conditional8.c -o Conditional8 }; if ($?) {
.\Conditional8 }
Kalpana Yadav, 125113003
Enter n
9
factorial of 9 is 362880
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

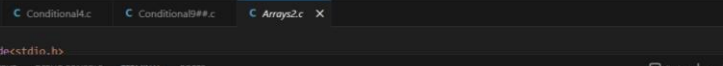


```
Help ← → Assignment C
Welcome | C Conditional4.c | C Conditional9##.c X
Conditional9##.c
> int main() {
    int n;
    scanf("%d", &n);
    if (isConditional9###(n))
        printf("It is a palindrome.\n");
    else
        printf("It is not a palindrome.\n");
    return 0;
}

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Code + - - - | X
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C" & if ($?) { gcc Conditional9##.c -o Conditional9## ; if ($?) { ./Conditional9## } }
Kalpana Yadav, 125112003
Enter an integer: 1234321
1234321 is a palindrome.
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> |
```

```
1.
Help  ← →  Assignment C
Welcome  C Conditional4.c  C Conditional9##.c  C Arrays1.c X
C Arrays1.c
1 #include<stdio.h>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "C:\Users\manoj\OneDrive\Desktop\Assignment C"; if ($?) { gcc Arrays1.c -o Arrays1 }; if ($?) { .\Arrays1 }
Kalpana Yadav,125113003
Array is: 23 34 32 35 45 56
Largest element in array is: 56
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

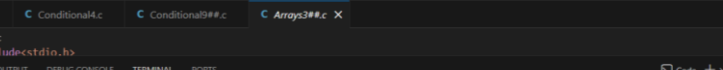


The screenshot shows a Windows command prompt window with the following text:

```

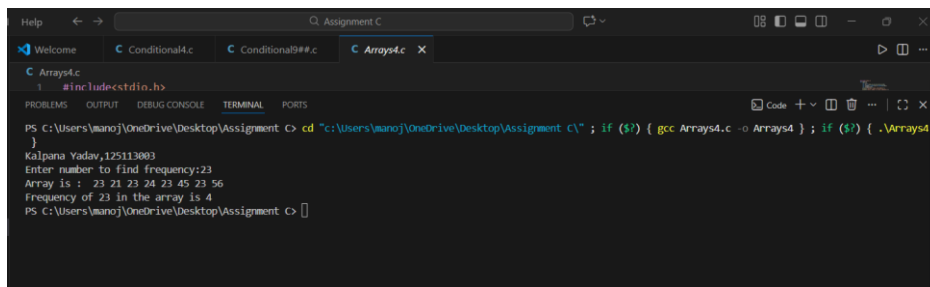
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "C:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Arrays2.c -o Arrays2 }; if ($?) { .\Arrays2 }
Kalpana Yadav,125113003
Array is: 23 21 20 12 13 14
Sum of elements is: 183.000000
Average of elements is: 17.166667
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>

```



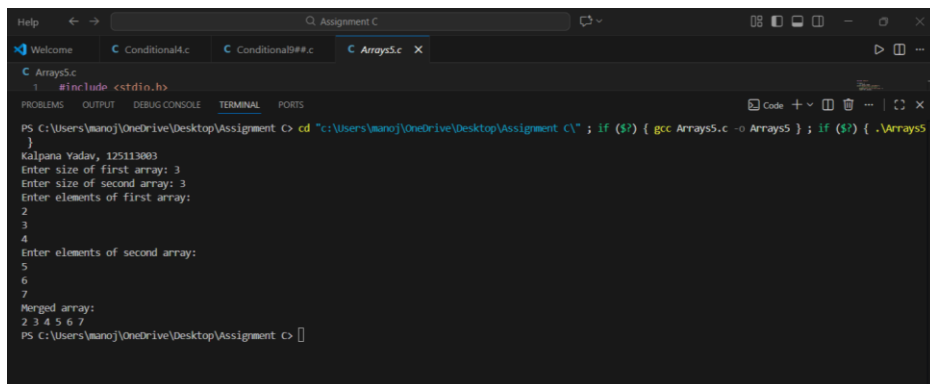
```
PS C:\Users\mano\Desktop\Assignment> gcc Arrays3##.c -o Arrays3##
PS C:\Users\mano\Desktop\Assignment> .\Arrays3##
Enter number of elements: 6
Enter 6 elements:
2
3
1
2
4
5
Sorted array in ascending order:
1 2 2 3 4 5
PS C:\Users\mano\Desktop\Assignment>
```

4.



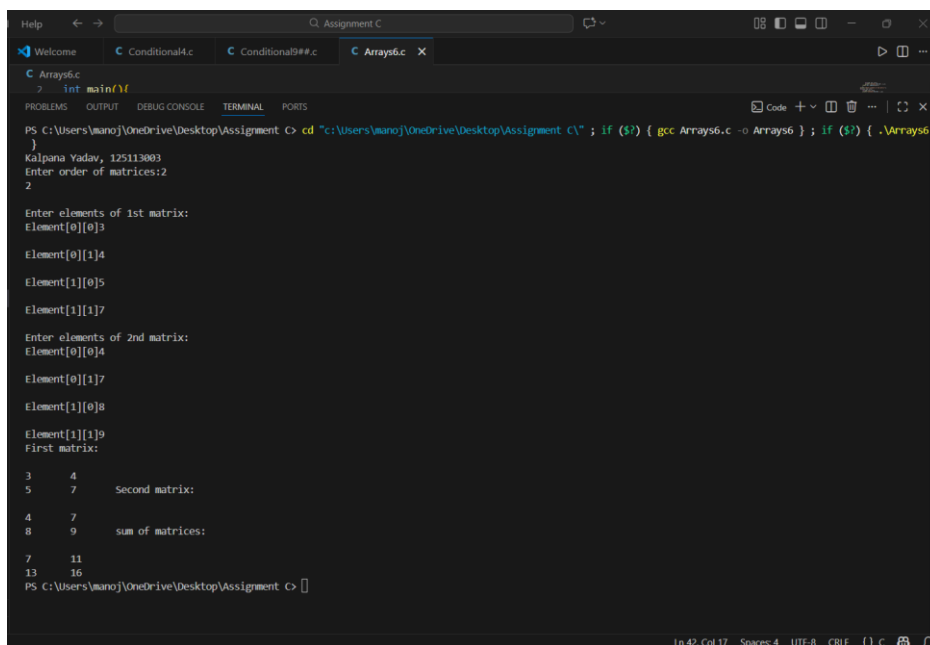
```
Help  ← →  Assignment C
C Arrays4.c
1 #include <stdio.h>
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Arrays4.c -o Arrays4 }; if ($?) { .\Arrays4 }
Kalpana Yadav,125113003
Enter number to find frequency:23
Array is : 23 21 23 24 23 45 23 56
Frequency of 23 in the array is 4
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

5.



```
Help  ← →  Assignment C
C Arrays5.c
1 #include <stdio.h>
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Arrays5.c -o Arrays5 }; if ($?) { .\Arrays5 }
Kalpana Yadav, 125113003
Enter size of first array: 3
Enter size of second array: 3
Enter elements of first array:
2
3
4
Enter elements of second array:
5
6
7
Merged array:
2 3 4 5 6 7
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

6.



```
Help  ← →  Assignment C
C Arrays6.c
1 int main()
2 {
3     int m1[2][3], m2[2][3], sum[2][3];
4     int i, j;
5     printf("Enter order of matrices:");
6     scanf("%d %d", &m1[0][0], &m1[0][1]);
7     printf("Enter elements of 1st matrix:\n");
8     for(i=0; i<m1[0][0]; i++)
9     {
10         for(j=0; j<m1[0][1]; j++)
11         {
12             scanf("%d", &m1[i][j]);
13         }
14     }
15     printf("Enter elements of 2nd matrix:\n");
16     for(i=0; i<m1[0][0]; i++)
17     {
18         for(j=0; j<m1[0][1]; j++)
19         {
20             scanf("%d", &m2[i][j]);
21         }
22     }
23     printf("sum of matrices:\n");
24     for(i=0; i<m1[0][0]; i++)
25     {
26         for(j=0; j<m1[0][1]; j++)
27         {
28             sum[i][j] = m1[i][j] + m2[i][j];
29         }
30     }
31     printf("First matrix:\n");
32     for(i=0; i<m1[0][0]; i++)
33     {
34         for(j=0; j<m1[0][1]; j++)
35         {
36             printf("%d\t", m1[i][j]);
37         }
38         printf("\n");
39     }
40     printf("Second matrix:\n");
41     for(i=0; i<m1[0][0]; i++)
42     {
43         for(j=0; j<m1[0][1]; j++)
44         {
45             printf("%d\t", m2[i][j]);
46         }
47         printf("\n");
48     }
49     printf("sum of matrices:\n");
50     for(i=0; i<m1[0][0]; i++)
51     {
52         for(j=0; j<m1[0][1]; j++)
53         {
54             printf("%d\t", sum[i][j]);
55         }
56         printf("\n");
57     }
58     return 0;
59 }
```

7.

```
1 #include<stdio.h>

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Arrays7.c -o Arrays7 } ; if ($?) { .\Arrays7
}
Kalpana Yadav, 125113003
Enter values of matrix:
Enter element[0][0]:
2
Enter element[0][1]:
3
Enter element[0][2]:
4
Enter element[1][0]:
5
Enter element[1][1]:
6
Enter element[1][2]:
7
Enter element[2][0]:
8
Enter element[2][1]:
4
Enter element[2][2]:
5

Original matrix is:
2 3 4
5 6 7
8 4 5
Transpose of matrix is:
2 5 8
3 6 4
4 7 5
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

8.

```
1 #include<stdio.h>

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Arrays8.c -o Arrays8 } ; if ($?) { .\Arrays8
}
Kalpana Yadav, 125113003
Enter the order of square matrix:3
Enter elements of matrix:
Element[0][0]:
3
Element[0][1]:
5
Element[0][2]:
46
Element[1][0]:
5
Element[1][1]:
6
Element[1][2]:
5
Element[2][0]:
6
Element[2][1]:
7
Element[2][2]:
8
Matrix is:
3 5 46
5 6 5
6 7 8
Sum of main diagonal elements is: 17
Sum of secondary diagonal elements is: 8
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

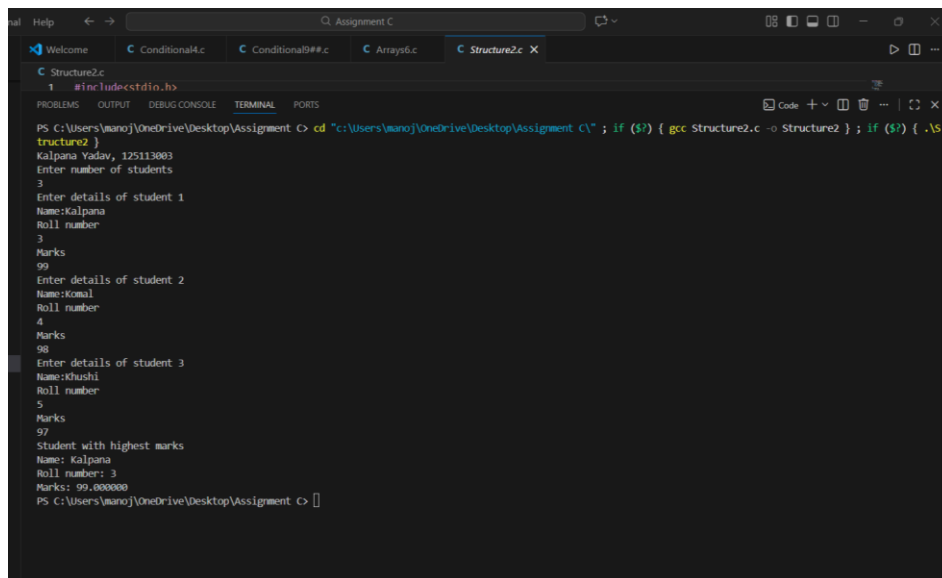
Structures

1.

```
1 #include<stdio.h>

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Structure1.c -o Structure1 } ; if ($?) { .\S
tructure1 }
Kalpana Yadav, 125113003
Details of students
Roll number: 13
Name of student: Kalpana
Marks of student: 50
PS C:\Users\mano\OneDrive\Desktop\Assignment C>
```

2.



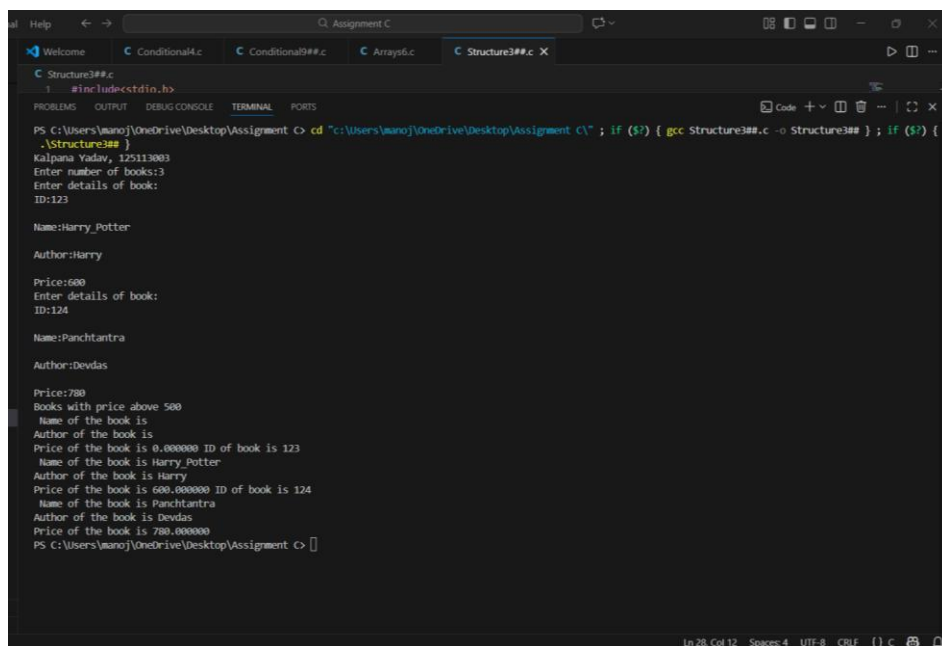
```

C Structure2.c
1 #include<stdio.h>
2 struct student
3 {
4     char name[50];
5     int roll;
6     float marks;
7 }
8 int main()
9 {
10     int n;
11     printf("Enter number of students\n");
12     scanf("%d", &n);
13     printf("Enter details of student 1\n");
14     struct student s1;
15     printf("Name:Kalpana\n");
16     printf("Roll number\n");
17     scanf("%d", &s1.roll);
18     printf("Marks\n");
19     scanf("%f", &s1.marks);
20     printf("Enter details of student 2\n");
21     struct student s2;
22     printf("Name:Komal\n");
23     printf("Roll number\n");
24     scanf("%d", &s2.roll);
25     printf("Marks\n");
26     scanf("%f", &s2.marks);
27     printf("Enter details of student 3\n");
28     struct student s3;
29     printf("Name:Khushi\n");
30     printf("Roll number\n");
31     scanf("%d", &s3.roll);
32     printf("Marks\n");
33     scanf("%f", &s3.marks);
34     printf("Student with highest marks\n");
35     if(s1.marks > s2.marks & s1.marks > s3.marks)
36     {
37         printf("Name: Kalpana\n");
38         printf("Roll number: %d\n", s1.roll);
39         printf("Marks: %.6f\n", s1.marks);
40     }
41     return 0;
42 }

```

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "C:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if (\$?) { gcc Structure2.c -o Structure2 } ; if (\$?) { .\Structure2.exe } ; if (\$?) { }

3.



```

C Structure3.c
1 #include<stdio.h>
2 struct book
3 {
4     char name[50];
5     char author[50];
6     float price;
7 }
8 int main()
9 {
10     int n;
11     printf("Enter number of books:3\n");
12     printf("Enter details of book:\n");
13     struct book b1;
14     printf("ID:123\n");
15     printf("Name:Harry_Potter\n");
16     printf("Author:Harry\n");
17     printf("Price:600\n");
18     struct book b2;
19     printf("Enter details of book:\n");
20     printf("ID:124\n");
21     printf("Name:Panchtantra\n");
22     printf("Author:Devdas\n");
23     printf("Price:780\n");
24     printf("Books with price above 500\n");
25     printf("Name of the book is\n");
26     printf("Author of the book is\n");
27     printf("Price of the book is 0.000000 ID of book is 123\n");
28     printf("Name of the book is Harry_Potter\n");
29     printf("Author of the book is Harry\n");
30     printf("Price of the book is 600.000000 ID of book is 124\n");
31     printf("Name of the book is Panchtantra\n");
32     printf("Author of the book is Devdas\n");
33     printf("Price of the book is 780.000000\n");
34     return 0;
35 }

```

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "C:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if (\$?) { gcc Structure3.c -o Structure3 } ; if (\$?) { .\Structure3.exe } ; if (\$?) { }

4.

```
Help  ← →  Assignment C  [Icons]  [Close]

C Structure4.c  [Close]  C Conditional4.c  C Conditional9##.c  C Arrays6.c  C Structure3##.c  C Structure4.c X

1 #include <stdio.h>

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  [Icons]  [Close]

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Structure4.c -o Structure4 }; if ($?) { .\S
tructure4 }
Kalpana Yadav, 125113003
Enter number of students
2
Details of student 1
Name
Kalpana
Roll number
3
Marks
99
Details of student 2
Name
Khushi
Roll number
4
Marks
98
Sum of marks is 197.000000
Average of marks is 98.500000
PS C:\Users\mano\OneDrive\Desktop\Assignment C> [ ]
```

5.

```
terminal  Help  ← →  Assignment C  [Icons]  [Close]

C Structure5.c  [Close]  C Conditional4.c  C Conditional9##.c  C Arrays6.c  C Structure3##.c  C Structure5.c X

1 #include <stdio.h>

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  [Icons]  [Close]

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Structure5.c -o Structure5 }; if ($?) { .\S
tructure5 }
Kalpana Yadav, 125113003
Enter Basic Salary: 250000
Enter Dearness Allowance (DA): 45000
Enter House Rent Allowance (HRA): 15000

Gross Salary = 310000.00
PS C:\Users\mano\OneDrive\Desktop\Assignment C> [ ]
```

6.

```
terminal  Help  ← →  Assignment C  [Icons]  [Close]

C Structure6.c  [Close]  C Conditional4.c  C Conditional9##.c  C Arrays6.c  C Structure6.c X

1 #include <stdio.h>

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  [Icons]  [Close]

PS C:\Users\mano\OneDrive\Desktop\Assignment C> cd "c:\Users\mano\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Structure6.c -o Structure6 }; if ($?) { .\S
tructure6 }
Kalpana Yadav, 125113003
Enter Employee ID: 123
Enter Employee Name: Kalpana
Enter Basic Salary: 250000
Enter Dearness Allowance (DA): 24000
Enter House Rent Allowance (HRA): 15000

--- Employee Details ---
ID: 123
Name: Kalpana
Basic Salary: 250000.00
Dearness Allowance (DA): 24000.00
House Rent Allowance (HRA): 15000.00
Gross Salary: 289000.00
PS C:\Users\mano\OneDrive\Desktop\Assignment C> [ ]
```

7.

```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Structure7.c -o Structure7 }; if ($?) { .\Structure7 }
Kalpana Yadav, 125113003
Enter student name: Kalpana
Enter roll number: 3
Enter DOB (day month year): 2 10 2006

--- Student Details ---
Name: Kalpana
Roll: 3
DOB : 02-10-2006
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

8.

```
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Structure8.c -o Structure8 }; if ($?) { .\Structure8 }
Kalpana Yadav, 125113003
Enter number of students: 3

Enter details for student 1
Roll number: 3
Name: Kalpana
Marks: 100

Enter details for student 2
Roll number: 4
Name: Khushi
Marks: 99

Enter details for student 3
Roll number: 5
Name: Komal
Marks: 98

--- Student Records Sorted by Roll Number ---
Roll: 3, Name: Kalpana, Marks: 100.00
Roll: 4, Name: Khushi, Marks: 99.00
Roll: 5, Name: Komal, Marks: 98.00
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

Pointer

1.

```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Pointer1.c -o Pointer1 }; if ($?) { .\Pointer1 }
Kalpana Yadav, 125113003
Enter two numbers:
23
24

Before swapping: x = 23, y = 24
After swapping: x = 24, y = 23
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

2.


```
Help  ← →  Assignment C  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

Welcome  Conditional4.c  Conditional9##.c  Arrays6.c  Pointer2.c  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

C Pointer2.c
1 #include <stdio.h>

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Pointer2.c -o Pointer2 } ; if ($?) { .\Point
er2 }
Enter number of elements in array: 6
Kalpana Yadav, 125113803
Enter 6 elements:
2
3
4
5
6

78
Sum of array elements = 98
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> [ ]
```

3.

```
Help  ← →  Assignment C  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

Welcome  Conditional4.c  Conditional9##.c  Arrays6.c  Pointer3.c  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

C Pointer3.c
1 #include <stdio.h>

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Pointer3.c -o Pointer3 } ; if ($?) { .\Point
er3 }
Kalpana Yadav, 125113803
Enter a string: Congratulations
Length of string = 15
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> [ ]
```

4.

```
Help  ← →  Assignment C  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

Welcome  Conditional4.c  Conditional9##.c  Arrays6.c  Pointer4.c  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

C Pointer4.c
1 #include <stdio.h>

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Pointer4.c -o Pointer4 } ; if ($?) { .\Point
er4 }
Kalpana Yadav, 125113803
Enter a string: String
Copied string: String
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> [ ]
```

5.

```
Help  ← →  Assignment C  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

Welcome  Conditional4.c  Conditional9##.c  Arrays6.c  Pointer5.c  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

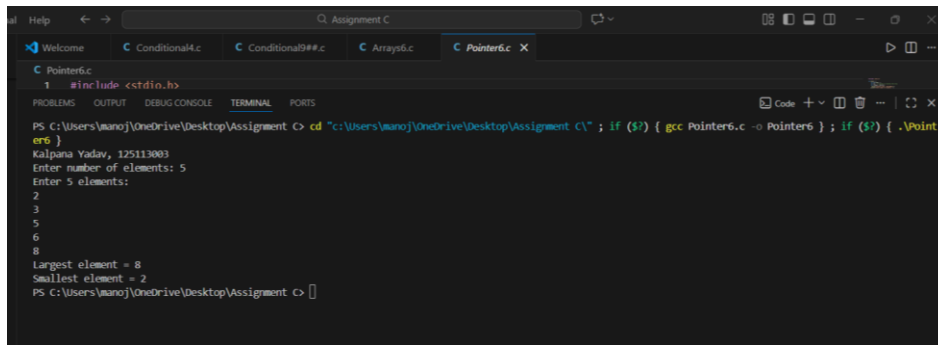
C Pointer5.c
1 #include <stdio.h>

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  [Icons] [Window] [File] [Edit] [Run] [Debug] [Tools] [Help]

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Pointer5.c -o Pointer5 } ; if ($?) { .\Point
er5 }
Kalpana Yadav, 125113803
Enter roll number: 3
Enter name: Kalpana
Enter marks: 98

--- Student Details ---
Roll Number: 3
Name: Kalpana
Marks: 98.00
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> [ ]
```

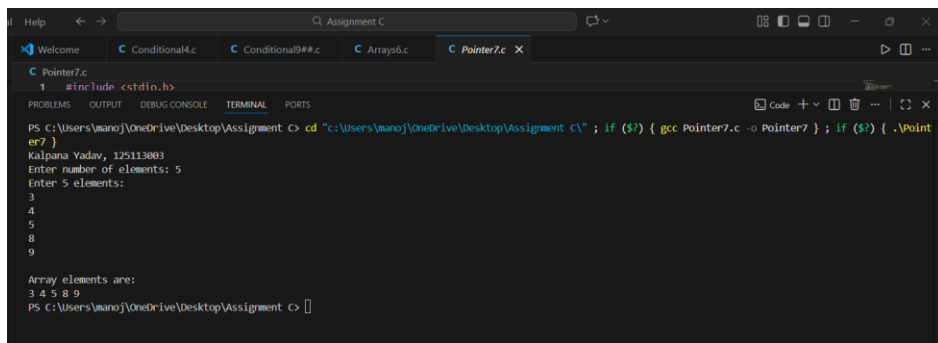
6.



```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Pointer6.c -o Pointer6 } ; if ($?) { .\Point
ers }
Kalpana Yadav, 125113003
Enter number of elements: 5
Enter 5 elements:
2
3
5
6
8
Largest element = 8
Smallest element = 2
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

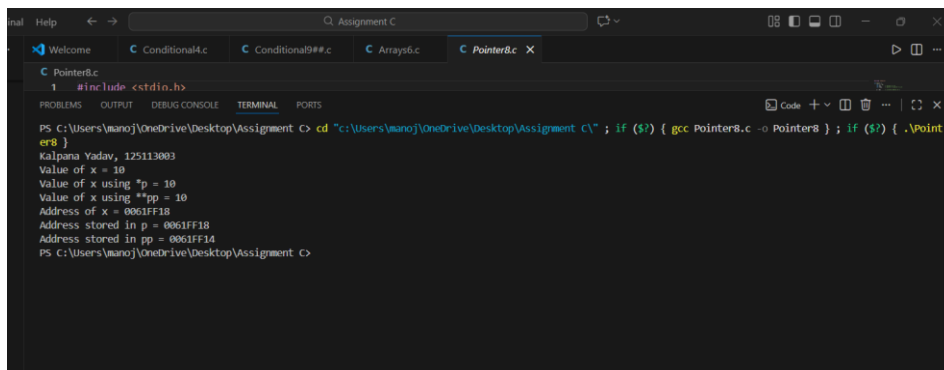
7.



```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Pointer7.c -o Pointer7 } ; if ($?) { .\Point
er7 }
Kalpana Yadav, 125113003
Enter number of elements: 5
Enter 5 elements:
3
4
5
8
9
Array elements are:
3 4 5 8 9
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

8.

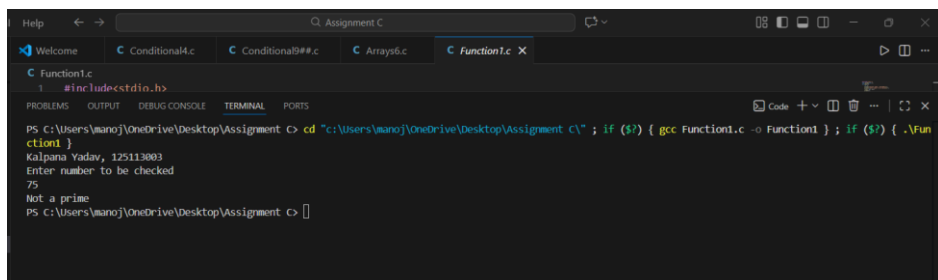


```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Pointer8.c -o Pointer8 } ; if ($?) { .\Point
ers }
Kalpana Yadav, 125113003
Value of x = 10
Value of x using *p = 10
Value of x using **pp = 10
Address of x = 0061FF18
Address stored in p = 0061FF18
Address stored in pp = 0061FF14
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

Functions

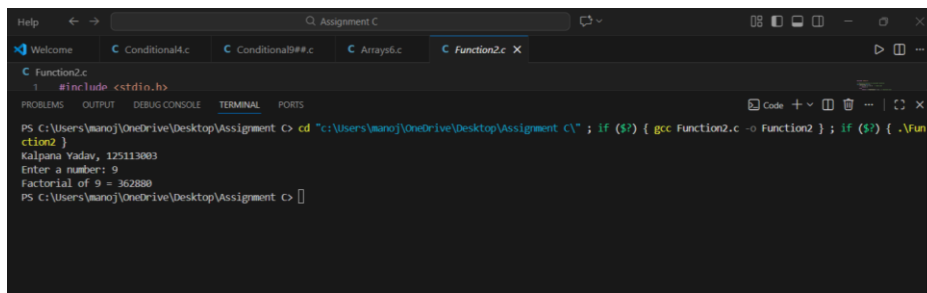
1.



```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Function1.c -o Function1 } ; if ($?) { .\Fun
ction1 }
Kalpana Yadav, 125113003
Enter number to be checked
75
Not a prime
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

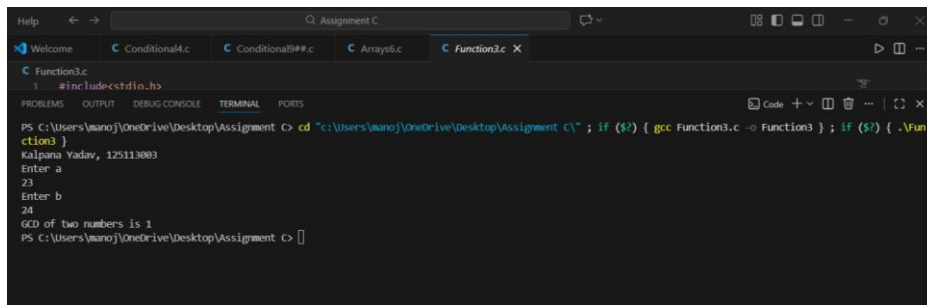
2.



```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Function2.c -o Function2 } ; if ($?) { .\Function2 }
Kalpana Yadav, 125113003
Enter a number: 9
Factorial of 9 = 362880
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> 
```

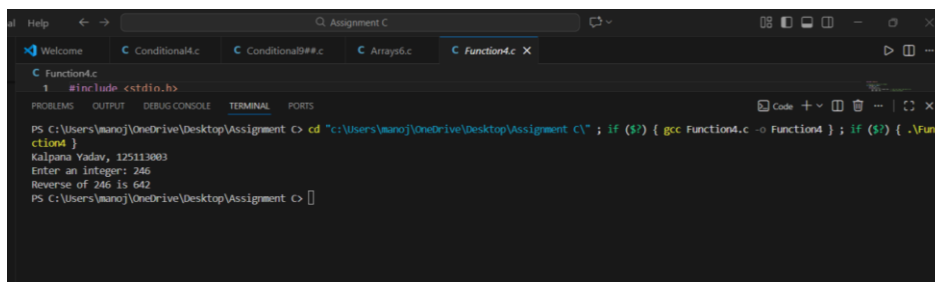
3.



```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Function3.c -o Function3 } ; if ($?) { .\Function3 }
Kalpana Yadav, 125113003
Enter a
23
Enter b
24
GCD of two numbers is 1
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> 
```

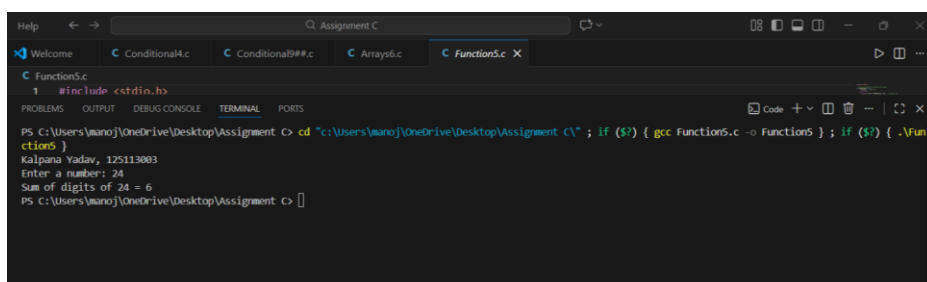
4.



```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Function4.c -o Function4 } ; if ($?) { .\Function4 }
Kalpana Yadav, 125113003
Enter an integer: 246
Reverse of 246 is 642
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> 
```

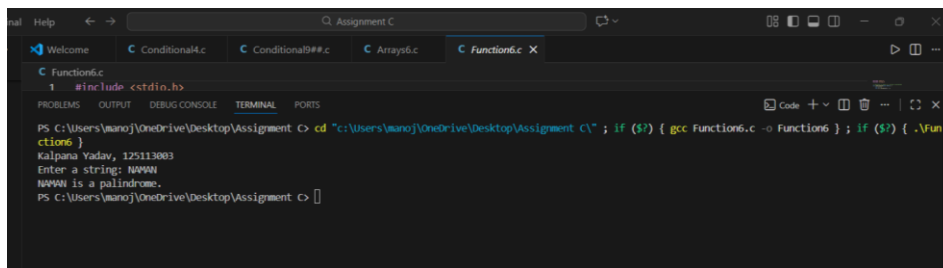
5.



```
1 #include <stdio.h>

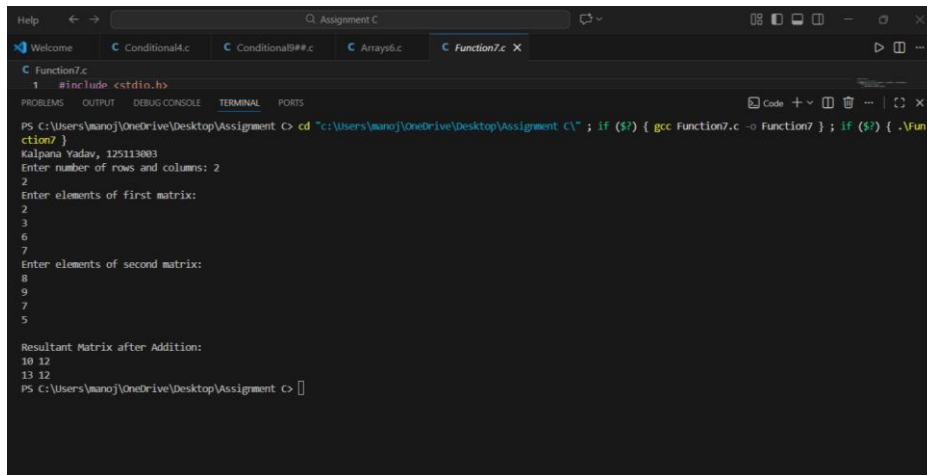
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Function5.c -o Functions } ; if ($?) { .\Functions }
Kalpana Yadav, 125113003
Enter a number: 24
Sum of digits of 24 = 6
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> 
```

6.



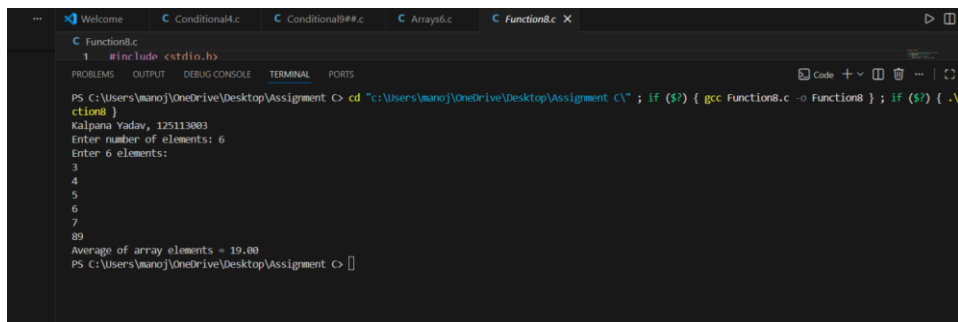
```
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Function6.c -o Function6 }; if ($?) { .\Function6 }
Kalpana Yadav, 125113003
Enter a string: NANAN
NANAN is a palindrome.
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

7.



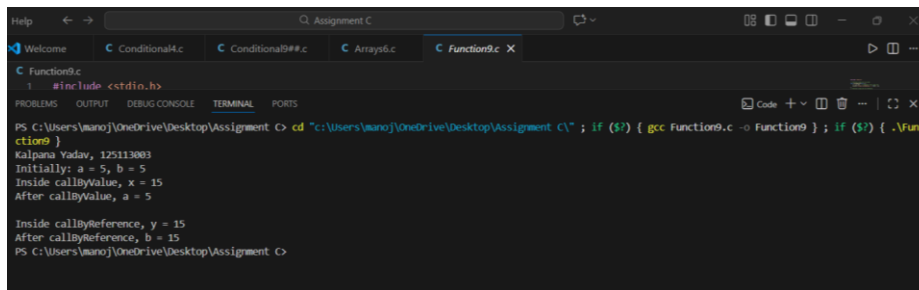
```
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Function7.c -o Function7 }; if ($?) { .\Function7 }
Kalpana Yadav, 125113003
Enter number of rows and columns: 2
Enter elements of first matrix:
2
3
6
7
Enter elements of second matrix:
8
9
7
5
Resultant Matrix after Addition:
10 12
13 12
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

8.



```
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Function8.c -o Function8 }; if ($?) { .\Function8 }
Kalpana Yadav, 125113003
Enter number of elements: 6
Enter 6 elements:
3
4
5
6
7
89
Average of array elements = 19.00
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

9.



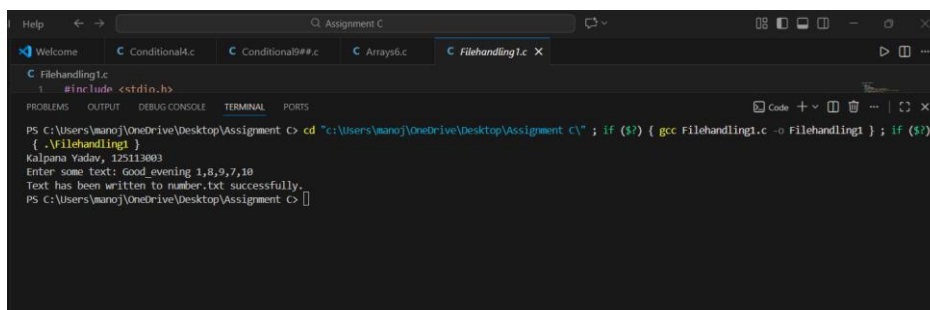
```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "C:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Function9.c -o Function9 }; if ($?) { .\Function9 }
Kalpana Yadav, 125113003
Initially, a = 5, b = 5
Inside callByValue, x = 15
After callByValue, a = 5

Inside callByReference, y = 15
After callByReference, b = 15
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

File Handling

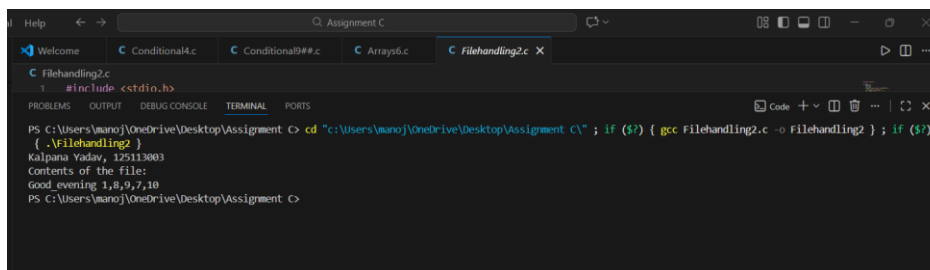
1.



```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "C:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Filehandling1.c -o Filehandling1 }; if ($?) { .\Filehandling1 }
Kalpana Yadav, 125113003
Enter some text: Good evening 1,8,9,7,10
Text has been written to number.txt successfully.
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

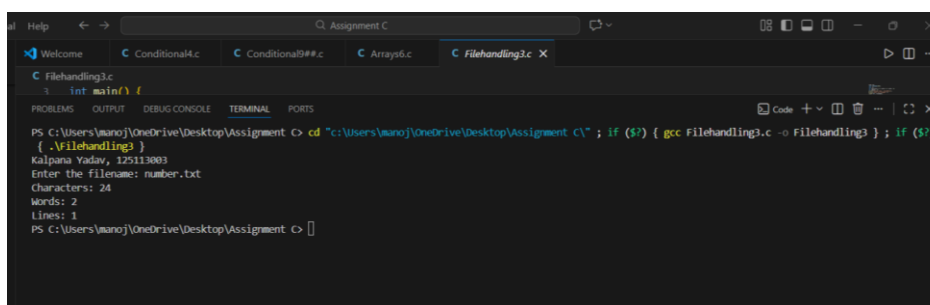
2.



```
1 #include <stdio.h>

PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "C:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Filehandling2.c -o Filehandling2 }; if ($?) { .\Filehandling2 }
Kalpana Yadav, 125113003
Enter some text: Good evening 1,8,9,7,10
Contents of the file:
Good evening 1,8,9,7,10
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

3.

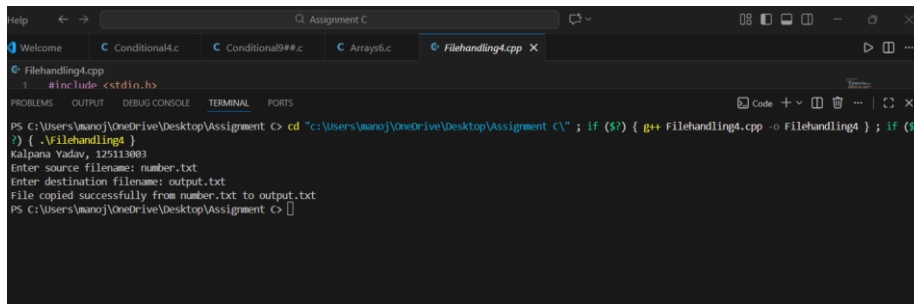


```
1 #include <stdio.h>

2 int main() {

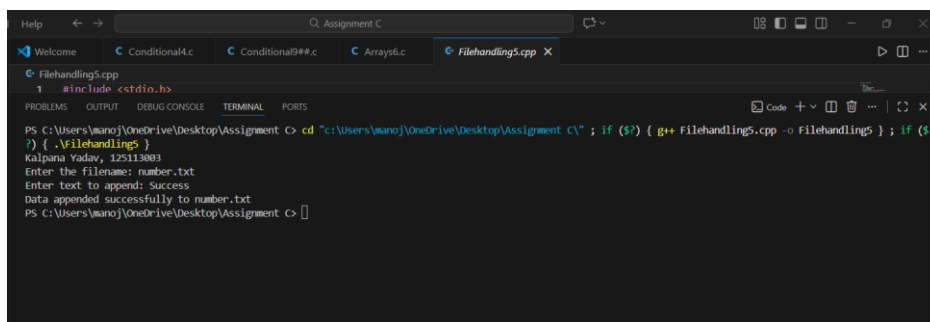
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "C:\Users\manoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Filehandling3.c -o Filehandling3 }; if ($?) { .\Filehandling3 }
Kalpana Yadav, 125113003
Enter the filename: number.txt
Characters: 24
Words: 2
Lines: 1
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

4.



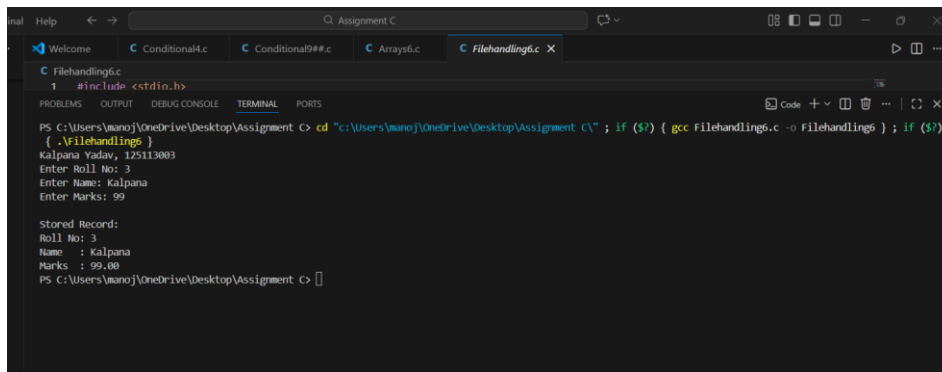
```
Filehandling4.cpp
1 #include <stdio.h>
2 {
3     .Filehandling4
4 }
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { g++ Filehandling4.cpp -o Filehandling4 }; if ($?) { .Filehandling4 }
Kalpana Yadav, 125113003
Enter source filename: number.txt
Enter destination filename: output.txt
File copied successfully from number.txt to output.txt
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

5.



```
Filehandling5.cpp
1 #include <stdio.h>
2 {
3     .Filehandling5
4 }
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { g++ Filehandling5.cpp -o Filehandling5 }; if ($?) { .Filehandling5 }
Kalpana Yadav, 125113003
Enter the filename: number.txt
Enter text to append: Success
Data appended successfully to number.txt
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

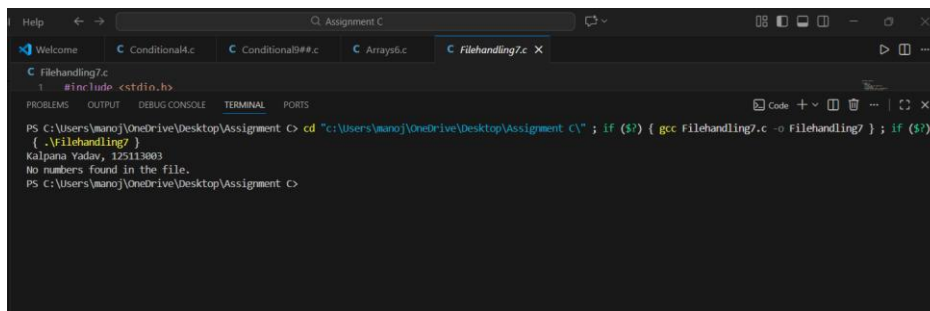
6.



```
Filehandling6.c
1 #include <stdio.h>
2 {
3     .Filehandling6
4 }
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Filehandling6.c -o Filehandling6 }; if ($?) { .Filehandling6 }
Kalpana Yadav, 125113003
Enter Roll No: 3
Enter Name: Kalpana
Enter Marks: 99

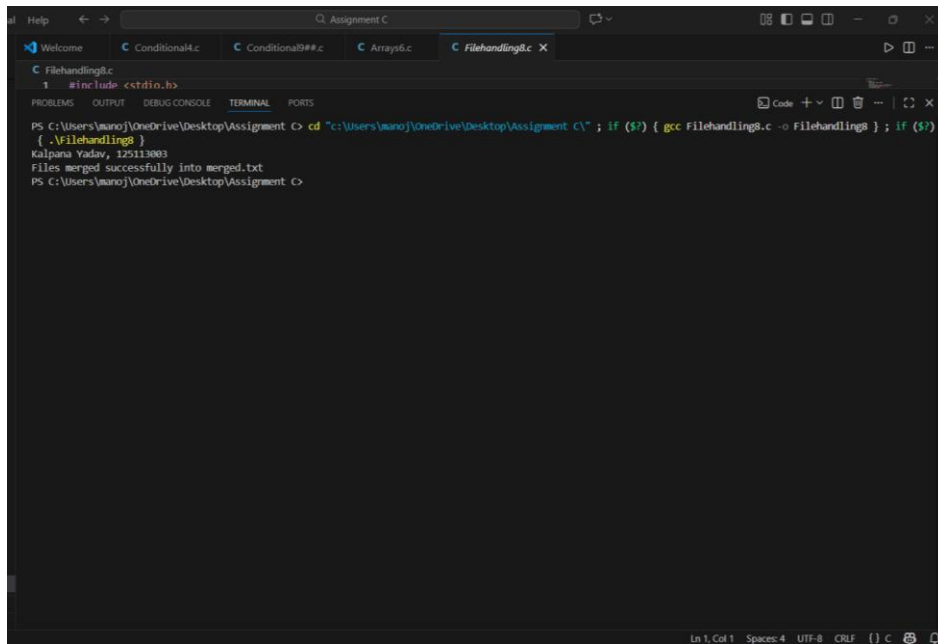
Stored Record:
Roll No: 3
Name : Kalpana
Marks : 99.00
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

7.



```
Filehandling7.c
1 #include <stdio.h>
2 {
3     .Filehandling7
4 }
PS C:\Users\manoj\OneDrive\Desktop\Assignment C> cd "c:\Users\manoj\OneDrive\Desktop\Assignment C\"; if ($?) { gcc Filehandling7.c -o Filehandling7 }; if ($?) { .Filehandling7 }
Kalpana Yadav, 125113003
No numbers found in the file.
PS C:\Users\manoj\OneDrive\Desktop\Assignment C>
```

8.



```
Filehandling8.c
1 #include <stdio.h>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\munoj\OneDrive\Desktop\Assignment C> cd "C:\Users\munoj\OneDrive\Desktop\Assignment C\" ; if ($?) { gcc Filehandling8.c -o Filehandling8 }; if ($?) { .\Filehandling8 }
Kalpana Yadav, 125113803
Files merged successfully into merged.txt
PS C:\Users\munoj\OneDrive\Desktop\Assignment C>
```