```
student@c05-60: ~/Desktop/13000121058/assignment 1
      student@c05-60:~/Desktop/13000121058/assignment 1$ gcc Q1.c
      student@c05-60:~/Desktop/13000121058/assignment 1$ ./a.out
      Enter the number of elements in the list: 4
      Enter the elements of the list:
      Enter element 1: 12
      Enter element 2: 54
      Enter element 3: 8
      Enter element 4: 4
      Enter the element to be searched: 4
      Element 4 is found at position 4
      student@c05-60:~/Desktop/13000121058/assignment 1$ ./a.out
      Enter the number of elements in the list: 3
      Enter the elements of the list:
      Enter element 1: 12
      Enter element 2: 21
      Enter element 3: 5
      Enter the element to be searched: 78
      Element 78 is not found in the list
      student@c05-60:~/Desktop/13000121058/assignment 1$
```

```
student@c05-60: ~/Desktop/13000121058/assignment 1
      student@c05-60:~/Desktop/13000121058/assignment 1$ gcc Q2.c
      student@c05-60:~/Desktop/13000121058/assignment 1$ ./a.out
      Enter the polynomial order: 4
      Enter the coefficients of the polynomial:
      Enter coefficient 1: 12
      Enter coefficient 2: 45
      Enter coefficient 3: 78
      Enter coefficient 4: 4
      Enter the value of x: 2
      The value of the polynomial is: 436
      student@c05-60:~/Desktop/13000121058/assignment 1$ ./a.out
      Enter the polynomial order: 3
      Enter the coefficients of the polynomial:
      Enter coefficient 1: 4
      Enter coefficient 2: 5
      Enter coefficient 3: 6
      Enter the value of x: 8
      The value of the polynomial is: 302
      student@c05-60:~/Desktop/13000121058/assignment 1$
```

```
student@c05-60: ~/Desktop/13000121058/assignment 1.2
      student@c05-60:~/Desktop/13000121058/assignment 1.2$ gcc Q1.c
      student@c05-60:~/Desktop/13000121058/assignment 1.2$ ./a.out
      Enter the number of rows: 2
      Enter the number of columns: 3
      Enter the elements:
      Enter the element in row 1 and column 1: 0
      Enter the element in row 1 and column 2: 9
      Enter the element in row 1 and column 3: 0
       Enter the element in row 2 and column 1: 0
      Enter the element in row 2 and column 2: 0
      Enter the element in row 2 and column 3: 1
      The matrix is:
                       0
      0
                       1
               0
      The matrix is sparse.
       The matrix in 3 tuple form is:
               2
      0
                       9
               1
               2
                       1
      The transpose of the matrix is:
               0
      9
               0
      student@c05-60:~/Desktop/13000121058/assignment 1.2$
```

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apg@DESKTOP-628HGPA:/mnt/d/C/3rd sem/DS/Assignment 2 apg@DESKTOP-628HGPA:~\$ cd /mnt/d/C/'3rd sem'/DS/'Assignment 2'										
apg@DESKTOP-628HGPA:/mnt/d/C/3rd sem/DS/Assignment 2\$ gcc Question_a.c										
apg@DESKTOP-628HGPA:/mnt/d/C/3rd sem/DS/Assignment 2\$./a.out										
	2.Pop		ay	4.Pe	eek	5.IsEmpty		6.IsFull		7.Exit
	our choid he data:									
enter t	ne data:	12								
	2.Pop		ay	4.Pe	eek	5.IsEmpty		6.IsFull		7.Exit
	our choi he data:									
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21 12	our choi	Le: 3								
	2.Pop our choi	-	ay	4.Pe	eek	5.IsEmpty		6.IsFull		7.Exit
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	our choi	The second secon	ау	7.5	EK	3.13Empty		0.15Full		/.EXIL
Stack is not empty										
1.Push	2.Pop	3.Displ	av	4.Pe	eek	5.IsEmpty		6.IsFull		7.Exit
Enter y	our choic	ce: 6								
Stack is not full										
1.Push	2.Pop	3.Displ	ay	4.Pe	eek	5.IsEmpty		6.IsFull		7.Exit
Enter y	our choi	ce: 2								
1.Push	2.Pop	3.Displ	ay	4.Pe	eek	5.IsEmpty		6.IsFull		7.Exit
	our choi									
1.Push	2.Pop	3.Displ	av	4. Pe	ek	5.IsEmpty		6.IsFull		7.Exit
Enter your choice: 3										
Stack i	s empty									
1.Push	2.Pop	3.Displ	ay	4.Pe	eek	5.IsEmpty		6.IsFull		7.Exit
Enter your choice: 7										
apg@DESKTOP-628HGPA:/mnt/d/C/3rd sem/DS/Assignment 2\$										
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	~ *			V.	18.04	4.1				







