

## Assignment:24

**Q.1 Write a Table which displays the table ACII table.**

**Ans.**

```
#include<stdio.h>

void ASCII()
{
    int i=0;

    char ch='\0';
    printf("_____ \n");
    printf("ASCII table\n");
    printf("\n_____ \n");
    printf("DECIMAL\tHEXADECIMAL\tOCTAL\n");

    for ( i = 0; i <=127; i++)
    {
        printf("%c\t%d\t%x\t%o\t",i,i,i,i);
    }
}

int main()
{
    ASCII();
    return 0;
}
```

## OUTPUT:

```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>gcc Q1.c -o Q1.exe
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q1.exe
-----
ASCII table
-----
DECIMAL  HEXADECIMAL  OCTAL
0         0         0
1         1         1
2         2         2
3         3         3
4         4         4
5         5         5
6         6         6
7         7         7
8         8         10
9         9         11
10        10        12
11        11        13
12        12        14
13        13        15
14        14        16
15        15        17
16        16        20
17        17        21
18        18        22
19        19        23
20        20        24
21        21        25
22        22        26
23        23        27
24        24        30
25        25        31
26        26        32
27        27        33
28        28        34
29        29        35
30        30        36
31        31        37
32        32        40
33        33        41
34        34        42
35        35        43
36        36        44
37        37        45
38        38        46
39        39        47
40        40        50
41        41        51
42        42        52
43        43        53
44        44        54
45        45        55
46        46        56
47        47        57
48        48        60
49        49        61
50        50        62
51        51        63
52        52        64
53        53        65
54        54        66
55        55        67
56        56        70
57        57        71
58        58        72
59        59        73
60        60        74
61        61        75
62        62        76
63        63        77
64        64        100
65        65        101
66        66        102
67        67        103
68        68        104
69        69        105
70        70        106
71        71        107
72        72        110
73        73        111
74        74        112
75        75        113
76        76        114
77        77        115
78        78        116
79        79        117
80        80        120
81        81        121
82        82        122
83        83        123
84        84        124
85        85        125
86        86        126
87        87        127
88        88        130
89        89        131
90        90        132
91        91        133
92        92        134
93        93        135
94        94        136
95        95        137
96        96        140
97        97        141
98        98        142
99        99        143
100       100       144
101       101       145
102       102       146
103       103       147
104       104       150
105       105       151
106       106       152
107       107       153
108       108       154
109       109       155
110       110       156
111       111       160
112       112       161
113       113       162
114       114       163
115       115       164
116       116       165
117       117       166
118       118       167
119       119       168
120       120       169
121       121       170
122       122       171
123       123       172
124       124       173
125       125       174
126       126       175
127       127       176
128       128       177
```

Q.2 Accept a character and convert its case otherwise print as it is.

Ans.

```
#include<stdio.h>
#include<ctype.h>

char ConvertCase(char cVar)
{
    if(cVar==toupper(cVar))
    {
        cVar=tolower(cVar);
    }
    else if(cVar==tolower(cVar))
    {
        cVar=toupper(cVar);
    }
}
```

```

    return cVar;
}

int main()
{
    char cVar='\0';

    printf("Enter a charecter to convert its case:\n");
    scanf("%c",&cVar);

    char cRet= ConvertCase(cVar);

    printf("%c is converted as %c",cVar,cRet);

    return 0;
}

```

## OUTPUT:

```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q2.exe
Enter a charecter to convert its case:
Q
Q is converted as q
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q2.exe
Enter a charecter to convert its case:
m
m is converted as M
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q2.exe
Enter a charecter to convert its case:
4
4 is converted as 4
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q2.exe
Enter a charecter to convert its case:
%
% is converted as %
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>|

```

**Q.3 Accept a character if it is in capital print the characters after it , if its small print characters before it else return nothing.**

**Ans.**

```
#include<stdio.h>

void Display(char cVar)
{
    int i=0;
    if(cVar>=97&& cVar<=122)
    {
        for(i=cVar;i>='a';i--)
        {
            printf("%c\t",i);
        }
    }
    else if(cVar>=65&& cVar<=90)
    {
        for(i=cVar;i<='Z';i++)
        {
            printf("%c\t",i);
        }
    }
    else{
        return;
    }
}

int main()
{
    char cVar='\0';

    printf("Enter a charecter:\n");
    scanf("%c",&cVar);

    Display(cVar);

    return 0;
}
```

## OUTPUT:

```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q3exe
Enter a charecter:
Q
Q      R      S      T      U      V      W      X      Y      Z
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q3exe
Enter a charecter:
m
m      l      k      j      i      h      g      f      e      d      c      b      a
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q3exe
Enter a charecter:
8
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>|
```

**Q.4 Accept a symbol from user and check whether it is special symbol or not.**

**Ans.**

```
#include<stdio.h>
#include<stdbool.h>

bool CheckSymbol(char cVar)
{
    bool bFlag=false;
    if((cVar>=33)&&(cVar<=42))
    {
        bFlag=true;
    }

    return bFlag;
}

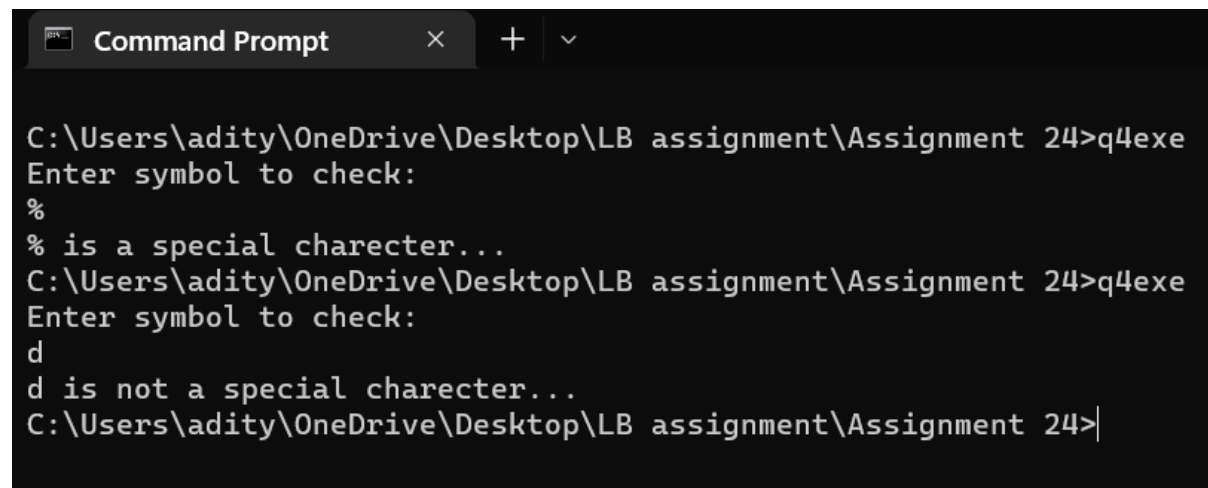
int main()
{
    char cVar='\0';

    printf("Enter symbol to check:\n");
    scanf("%c",&cVar);
```

```
bool bRet=CheckSymbol(cVar);

if(bRet==true)
{
    printf("%c is a special charecter...",cVar);
}
else{
    printf("%c is not a special charecter...",cVar);
}
return 0;
}
```

## OUTPUT:



```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q4exe
Enter symbol to check:
%
% is a special charecter...
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q4exe
Enter symbol to check:
d
d is not a special charecter...
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>|
```

**Q.5 Accept a character from user and display its decimal, octal and hexadecimal value.**

**Ans.**

```
#include<stdio.h>

void Display(char cVar)
{
    printf("The values in the ACII table are:\n");
    printf("Decimal\tOctal\tHexadecimal\n");
    printf("%d\t%o\t%x\n",cVar,cVar,cVar);
}

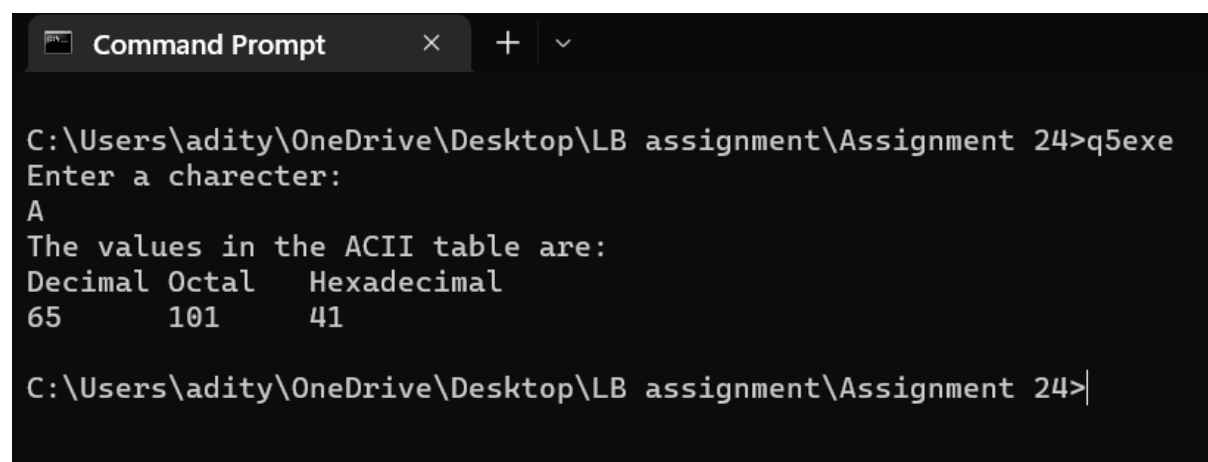
int main()
{
    char cVar='\0';

    printf("Enter a charecter:\n");
    scanf("%c",&cVar);

    Display(cVar);

    return 0;
}
```

**OUTPUT:**



```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>q5exe
Enter a charecter:
A
The values in the ACII table are:
Decimal Octal   Hexadecimal
65      101      41

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 24>|
```