

Assignment:23

Q.1 Accept a character from user and check whether its alphabet or not.

Ans.

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

bool CheckAlphabet(char cVal)
{
    if((cVal>='a')&&(cVal<='z')||(cVal>='A')&&(cVal<='Z'))
    {
        return true;
    }
    else{
        return false;
    }
}

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

    printf("Enter a charecter to check it is alphabet or not:\n");
    scanf("%c",&cVal);

    bool bRet=CheckAlphabet(cVal);
    if(bRet==true)
    {
        printf("%c is an alphabet..",cVal);
    }
    else{
        printf("%c is not an alphabet",cVal);
    }

    return 0;
}
```

OUTPUT:

```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>q1exe
Enter a charecter to check it is alphabet or not:
F
F is an alphabet..
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>q1exe
Enter a charecter to check it is alphabet or not:
&
& is not an alphabet
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>|
```

Q.2 Accept a character from user and check whether its capital.

Ans.

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

bool CheckAlphabet(char cVal)
{
    if((cVal>='A')&&(cVal<='Z'))
    {
        return true;
    }
    else{
        return false;
    }
}

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

    printf("Enter a charecter to check it is alphabet or not:\n");
    scanf("%c",&cVal);

    bool bRet=CheckAlphabet(cVal);
    if(bRet==true)
```

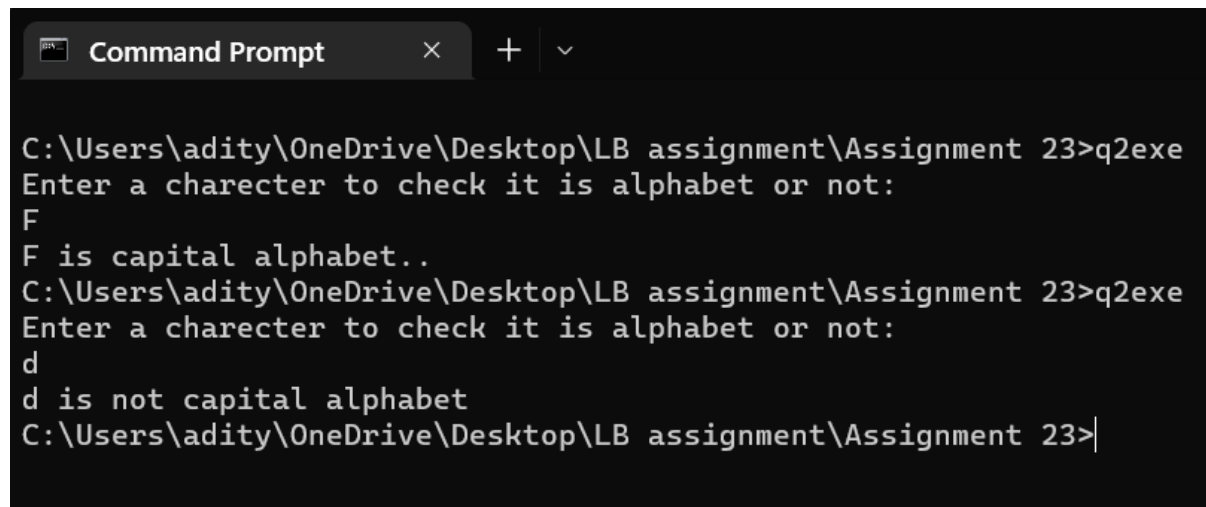
```

{
    printf("%c is capital alphabet..",cVal);
}
else{
    printf("%c is not capital alphabet",cVal);
}

return 0;
}

```

OUTPUT:



```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>q2exe
Enter a charecter to check it is alphabet or not:
F
F is capital alphabet..
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>q2exe
Enter a charecter to check it is alphabet or not:
d
d is not capital alphabet
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>|

```

Q.3 Accept a character from user and check whether it is digit.

Ans.

```

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

bool CheckAlphabet(char cVal)
{
    if((cVal>='0')&&(cVal<='9'))
    {
        return true;
    }
    else{
        return false;
    }
}

```

```

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

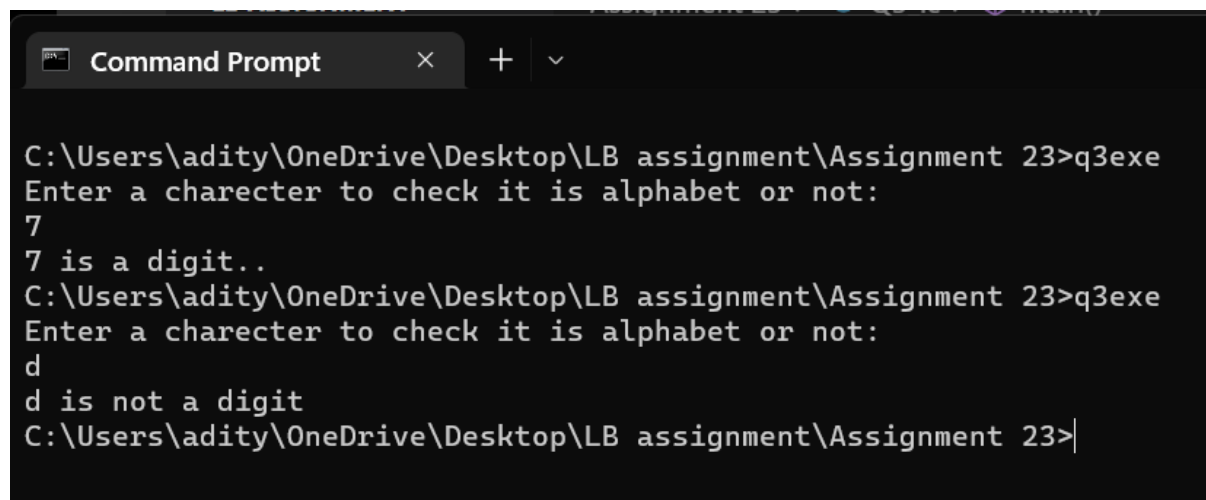
    printf("Enter a charecter to check it is alphabet or not:\n");
    scanf("%c",&cVal);

    bool bRet=CheckAlphabet(cVal);
    if(bRet==true)
    {
        printf("%c is a digit..",cVal);
    }
    else{
        printf("%c is not a digit",cVal);
    }

    return 0;
}

```

OUTPUT:



```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>q3exe
Enter a charecter to check it is alphabet or not:
7
7 is a digit..
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>q3exe
Enter a charecter to check it is alphabet or not:
d
d is not a digit
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>|

```

Q.4 Accept a character from user and check whether it is small case.

Ans.

```

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

bool CheckAlphabet(char cVal)

```

```

{
    if((cVal>='a')&&(cVal<='z'))
    {
        return true;
    }
    else{
        return false;
    }
}

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

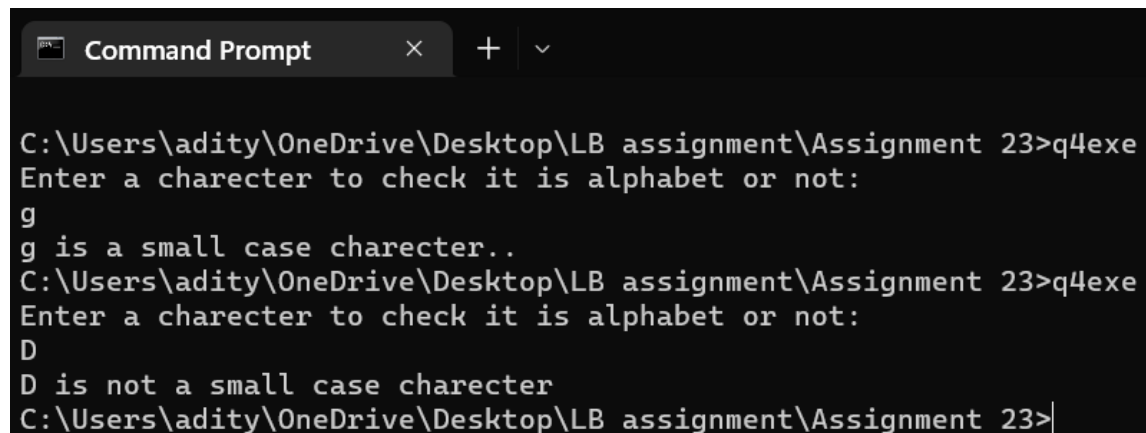
    printf("Enter a charecter to check it is alphabet or not:\n");
    scanf("%c",&cVal);

    bool bRet=CheckAlphabet(cVal);
    if(bRet==true)
    {
        printf("%c is a small case charecter..",cVal);
    }
    else{
        printf("%c is not a small case charecter",cVal);
    }

    return 0;
}

```

OUTPUT:



```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>q4exe
Enter a charecter to check it is alphabet or not:
g
g is a small case charecter..
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>q4exe
Enter a charecter to check it is alphabet or not:
D
D is not a small case charecter
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>

```

Q.5 Accept division of a student and return the exam time for that division.

Ans.

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

void Display(char cVar)
{
    if(cVar==tolower(cVar))
    {
        cVar=toupper(cVar);
    }

    switch (cVar)
    {
        case 'a':
            printf("Your exam is at 7 A.M.");
            break;

        case 'B':
            printf("Your exam is at 8:30 A.M.");
            break;

        case 'C':
            printf("Your exam is at 9:20 A.M.");
            break;

        case 'D':
            printf("Your exam is at 10:30 A.M.");
            break;

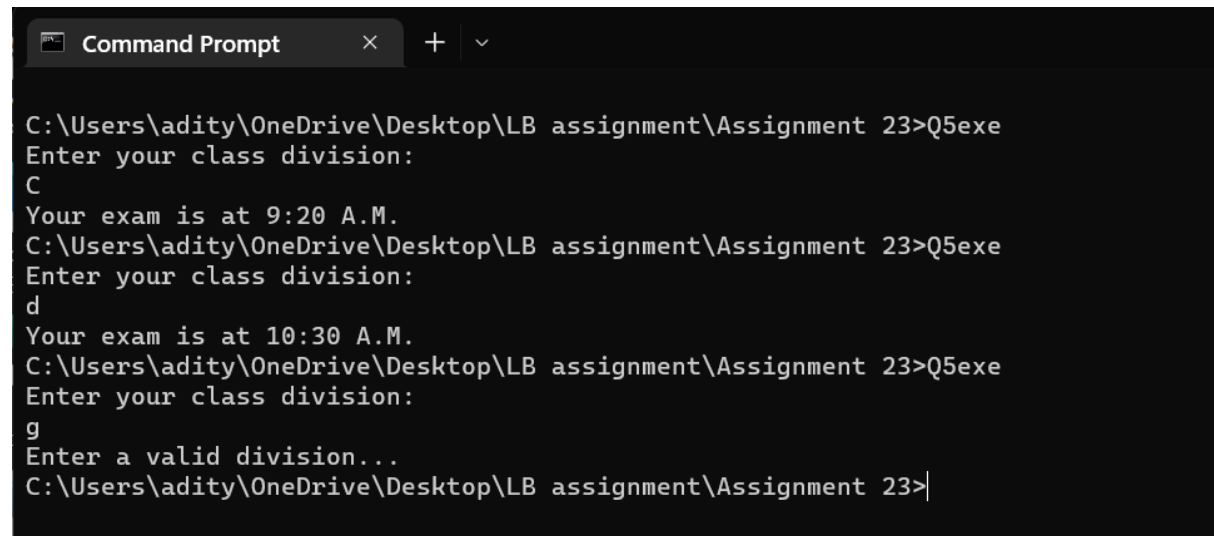
        default:
            printf("Enter a valid division...");
            break;
    }
}

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

    printf("Enter your class division:\n");
    scanf("%c",&cVar);
```

```
    Display(cVar);  
    return 0;  
}
```

OUTPUT:



```
Command Prompt  
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>Q5exe  
Enter your class division:  
C  
Your exam is at 9:20 A.M.  
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>Q5exe  
Enter your class division:  
d  
Your exam is at 10:30 A.M.  
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>Q5exe  
Enter your class division:  
g  
Enter a valid division...  
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 23>|
```