



KIET Group of Institutions, Ghaziabad

Department of Computer Applications

(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)

Problem Solving Using C Lab

KCA 151: Session 2020-21

```
printf("\nenter y/Y to continue :");
scanf("%c",&i);
}while(i=='y' || i=='Y');
getch();
}
char to_upper(char ch){
    if(ch>=97 && ch<=122){
        ch=ch-32;
        printf("%c is in upper case",ch);
    }
    else if(ch>=65 && ch<=90){
        printf(" %c is already in upper case",ch);
    }
    else{
        printf("this is not a character\n");
    }
    return 0;
}
char to_lower(char ch){
    if(ch>=65 && ch<=90){
        ch=ch+32;
        printf("%c is in lower case",ch);
    }
    else if(ch>=97 && ch<=122){
        printf(" %c is already in lower case",ch);
    }
    else{
        printf("this is not a character\n");
    }
    return 0;
}
char is_lower(char ch)
{
    if(ch>=97 && ch<=122){
        printf("%c is in lower case",ch);
    }
    else if(ch>=65 && ch<=90)
    {
        printf("%c is not in lower case",ch);
    }
    else{
        printf("this is not a character\n");
    }
}
```



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```
    }
}
char is_upper(char ch)
{
    if(ch>=65 && ch<=90){
        printf("%c is in upper case",ch);
    }
    else if(ch>=97 && ch<=122){
        printf("%c is not in upper case",ch);
    }
    else{
        printf("this is not a character");
    }
}
char is_digit(char ch)
{
    if(ch>=48 && ch<=57){
        printf("%c is a digit",ch);
    }
    else{
        printf("%c is not a digit",ch);
    }
}
char is_alphabet(char ch)
{
    if((ch>=97 && ch<=122)||(ch>=65 && ch<=90)){
        printf("%c is a alphabet",ch);
    }
    else{
        printf("%c is not a alphabet",ch);
    }
}
```

OUTPUT



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```
enter the value G
ENTER YOUR CHOICE
1. convert to upper case
2. convert to lower case
3. check the character is in lower case
4. check the character is in upper case
5. check the enter value is digit 0 to 9
6. check the enter value is alphabet
2
g is in lower case
enter y/Y to continue :
```

ALGORITHM :

1. START.
2. Create functions.
3. Scan value .
4. Ask your action .
Menu
-to_upper().
-to_lower().
-is_upper().
-Is_lower().
-is_digit().
-is_alphabet();
5. ask to repeat .
- 6.function definition-
-Toupper()
if(ch>=97 && ch<=122)
ch=ch-32;
printf("%c is in upper case",ch);
-tolower()
if(ch>=65 && ch<=90)



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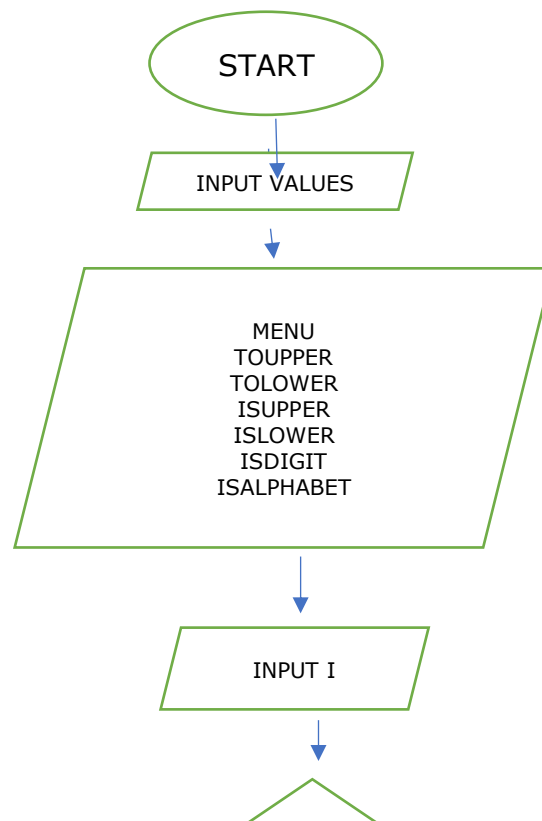
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```
ch=ch+32;
printf("%c is in lower case",ch);
-isupif((ch>=97 && ch<=122)||(ch>=65 && ch>=90)){
    printf("%c is a alphabet",ch);
}per()
if(ch>=65 && ch<=90)
    printf("%c is in lower case",ch);
-islower()
if(ch>=97 && ch<=122)
    printf("%c is in lower case",ch);
-isdigit()
if(ch>=48 && ch<=57)
    printf("%c is a digit",ch);

-isalphabet()
if((ch>=97 && ch<=122)||(ch>=65 && ch>=90)){
    printf("%c is a alphabet",ch);
}
```

FLOWCHART





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