

## C-Lab-Day-9

Que 1 :

=====

Write a C program to read name and age of person and by age check the person is eligible for vote or not using simple (if) only.

Sample input : Enter your name: Kishor

Enter your age: 20

Sample output : Hi kishor you are eligible to vote.

Sample input : Enter your age: 16

Sample output : Sorry Kishor you are not eligible to vote.

Sol:

\_\_\_\_\_

// Online C compiler to run C program online

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

```
int main() {  
    char name[10];  
    int age;  
    printf("Enter your name:");  
    scanf("%s",&name);
```

```

printf("Enter your age:");
scanf("%d",&age);
if(age>=18)
{
    printf("Hi %s you are eligible to vote.\n",name);
    return 0;
}
printf("Sorry %s you are not eligible to vote.",name);

return 0;
}
=====
=====
=====

```

Que 2 :

=====

Write a C program to read name and age of person and by age check the person is eligible for vote or not using if-else.

Sample input : Enter your name: Kishor

Enter your age: 20

Sample output : Hi kishor you are eligible to vote.

Sample input : Enter your name: Kishor

Enter your age: 16

Sample output : Sorry Kishor you are not eligible to vote.

Sol:

---

// Online C compiler to run C program online

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

```
int main() {  
    char name[10];  
    int age;  
    printf("Enter your name:");  
    scanf("%s",&name);  
    printf("Enter your age:");  
    scanf("%d",&age);  
    if(age>=18)  
    {  
        printf("Hi %s you are eligible to vote.\n",name);  
    }  
    else {  
        printf("Sorry %s you are not eligible to vote.",name);  
    }  
}
```

```
}
```

```
return 0;
```

```
}
```

```
=====
=====
=====
```

Que 3 :

```
=====
```

Write a C program to find maximum between two numbers using simple (if) only.

Sample input : int a = 100, b = 200

Sample output : 200

Sol:

```
_____
```

```
// Online C compiler to run C program online
```

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

```
int main() {
```

```

int a,b;
printf("int a=");
scanf("%d",&a);
printf(",b=");
scanf("%d",&b);
if(a>b)
{
    printf("%d",a);
    return 0;
}
printf("%d",b);

return 0;
}

```

```

=====
=====
=====

```

Que 4 :

```

=====

```

Write a C program to find maximum between two numbers using if-else.

Sample input : int a = 100, b = 200

Sample output : 200

Sol:

—

// Online C compiler to run C program online

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

```
int main() {
```

```
    int a,b;
```

```
    printf("int a=");
```

```
    scanf("%d",&a);
```

```
    printf("b=");
```

```
    scanf("%d",&b);
```

```
    if(a>b)
```

```
    {
```

```
        printf("%d",a);
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("%d",b);
```

```
    }
```

```
    return 0;
```

}

=====

=====

=====

Que 5 :

=====

Write a C program to read one character from user and convert it into uppercase if given character is in lowercase otherwise convert it to lowercase using simple (if) only.

Sample input : char ch = 'A';

Sample output : a

Sample input : char ch = 'b';

Sample output : B

Sol:

\_\_\_\_\_

// Online C compiler to run C program online

#include <stdio.h>

#include <ctype.h>

```

int main() {
    char ch;
    printf("char ch=");
    scanf("%c",&ch);
    if(ch>='a'&& ch<='z')
    {
        printf("%c",toupper(ch));

    }
    if(ch>='A'&& ch<='Z')
    {
        printf("%c",tolower(ch));

    }

    return 0;
}

```

```

=====
=====
=====

```

Que 6 :



=====

Write a C program to read one character from user and convert it into uppercase if given character is in lowercase otherwise convert it to lowercase using if-else only.

Sample input : char ch = 'A';

Sample output : a

Sample input : char ch = 'b';

Sample output : B

Sol:

\_\_\_\_\_

// Online C compiler to run C program online

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

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

```
int main() {
```

```
    char ch;
```

```
    printf("char ch=");
```

```
    scanf("%c",&ch);
```

```
    if(ch==toupper(ch))
```

```
    {
```

```
        printf("%c",tolower(ch));
        return 0;
    }
    else
    {
        printf("%c",toupper(ch));
    }

    return 0;
}
```

OR

// Online C compiler to run C program online

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

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

```
int main() {
    char ch;
    printf("char ch=");
    scanf("%c",&ch);
    if(ch>='a'&& ch<='z')
    {
        printf("%c",toupper(ch));
    }
}
```

```
return 0;
```

```
}
```

```
printf("%c",tolower(ch));
```

```
return 0;
```

```
}
```

```
=====
=====
=====
```

Que 7 :

```
=====
```

Write a C program to input any alphabet and check whether it is vowel or consonant using simple(if) only.

Sample input : char ch = 'A';

Sample output : Vowel

Sample input : char ch = 'b';

Sample output : Consonant

Sol:

—

// Online C compiler to run C program online

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

```
int main() {
```

```
    char ch;
```

```
    printf("char ch=");
```

```
    scanf("%c",&ch);
```

```
    if(ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
```

```
    {
```

```
        printf("Vowel",ch);
```

```
        return 0;
```

```
    }
```

```
    if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u')
```

```
    {
```

```
        printf("Vowel",ch);
```

```
        return 0;
```

```
    }
```

```
    printf("Consonant",ch);
```

```
    return 0;
}
```

```
=====
=====
=====
```

Que 8 :

```
=====
```

Write a C program to input any alphabet and check whether it is vowel or consonant using if-else.

Sample input : char ch = 'A';

Sample output : Vowel

Sample input : char ch = 'b';

Sample output : Consonant

Sol:

```
_____
```

// Online C compiler to run C program online

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

```
int main() {
```

```
char ch;

printf("char ch=");
scanf("%c",&ch);

if(ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
{
    printf("Vowel",ch);
    return 0;
}

if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u')
{
    printf("Vowel",ch);
    return 0;
}

else
{
    printf("Consonant",ch);
}

return 0;
}
```

=====

=====

=====

Que 9 :

=====

Write a C program to check whether a character is uppercase or lowercase alphabet using simple(if) only.

Sample input : char ch = 'A';

Sample output : UpperCase

Sample input : char ch = 'b';

Sample output : LoweCase

Sol:

\_\_\_\_\_

// Online C compiler to run C program online

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

```
int main() {
```

```
    char ch;
```

```
    printf("char ch=");
```

```
    scanf("%c",&ch);
```

```
if(ch>='A' && ch<='Z')
{
    printf("Uppercase",ch);
    return 0;
}
printf("Lowercase",ch);
```

```
    return 0;
}

=====
=====
=====
```

Que 10 :

=====

Write a C program to check whether a character is uppercase or lowercase alphabet using if-else.

Sample input : char ch = 'A';

Sample output : UpperCase

Sample input : char ch = 'b';

Sample output : LoweCase



Sol:

---

// Online C compiler to run C program online

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

```
int main() {
```

```
    char ch;
```

```
    printf("char ch=");
```

```
    scanf("%c",&ch);
```

```
    if(ch>='A' && ch<='Z')
```

```
    {
```

```
        printf("Uppercase",ch);
```

```
        return 0;
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("Lowercase",ch);
```

```
    }
```

```
    return 0;
```

```
}
```