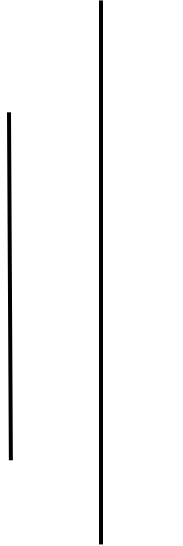




SHAHD SMARAK COLLEGE

Kirtipur, Kathmandu



Assignment No. 3 of Digital logic

Submitted by :-

Amir maharjan

BCA 2nd Semester

Submitted to :-

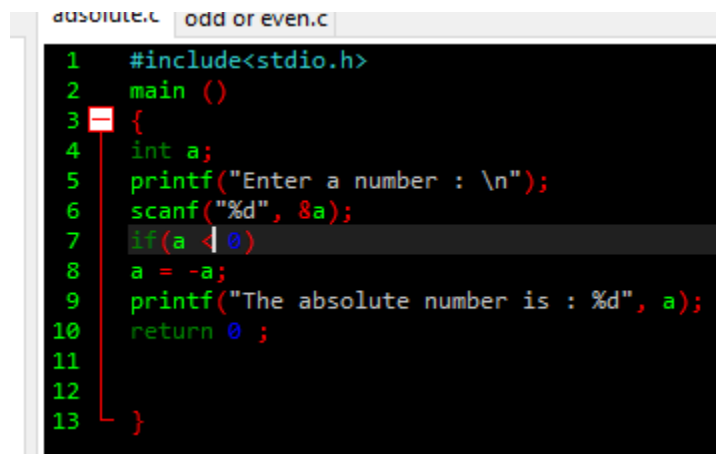
Himal Raj Gentil

C PROGRAMMING

Assignment 2

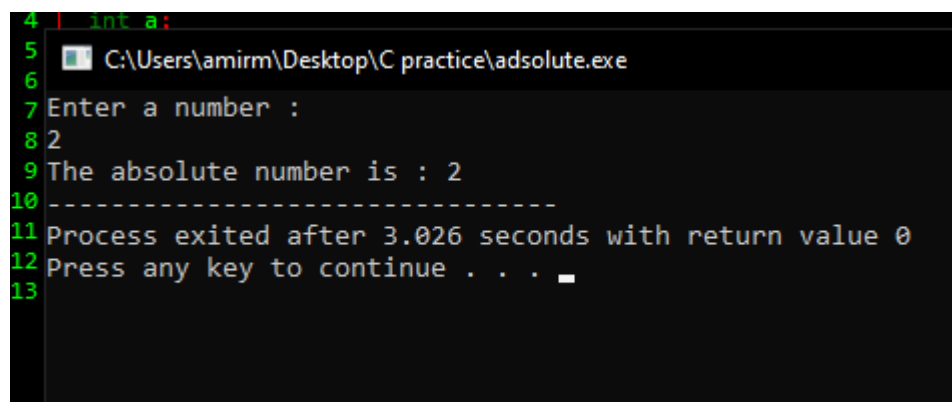
Q.1. Print the absolute value of input number using if control statement.

Program.



```
1 #include<stdio.h>
2 main ()
3 {
4     int a;
5     printf("Enter a number : \n");
6     scanf("%d", &a);
7     if(a < 0)
8     {
9         a = -a;
10    }
11    printf("The absolute number is : %d", a);
12    return 0 ;
13 }
```

Output.



```
4 | int a;
5 | C:\Users\amirm\Desktop\C practice\adsolute.exe
6 |
7 | Enter a number :
8 | 2
9 | The absolute number is : 2
10 | -----
11 | Process exited after 3.026 seconds with return value 0
12 | Press any key to continue . . .
13 |
```

Q.2 Print whether the entered number is odd or even using if... else function.

Program.

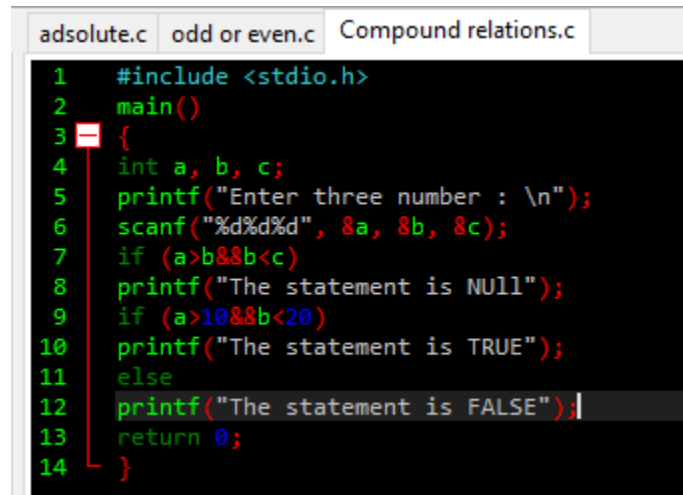
```
adsolute.c  odd or even.c
1  #include<stdio.h>
2  main ()
3  {
4  int a;
5  printf("Enter a number : \n");
6  scanf("%d", &a);
7  if (a % 2 == 0)
8  printf("The number is even");
9  else
10 printf("The number is odd");
11 return 0;
12 }
```

Output.

```
main ()
{
int a;
C:\Users\amirm\Desktop\C practice\odd or even.exe
Enter a number :
8899
The number is odd
-----
Process exited after 5.992 seconds with return value 0
Press any key to continue . . .
```

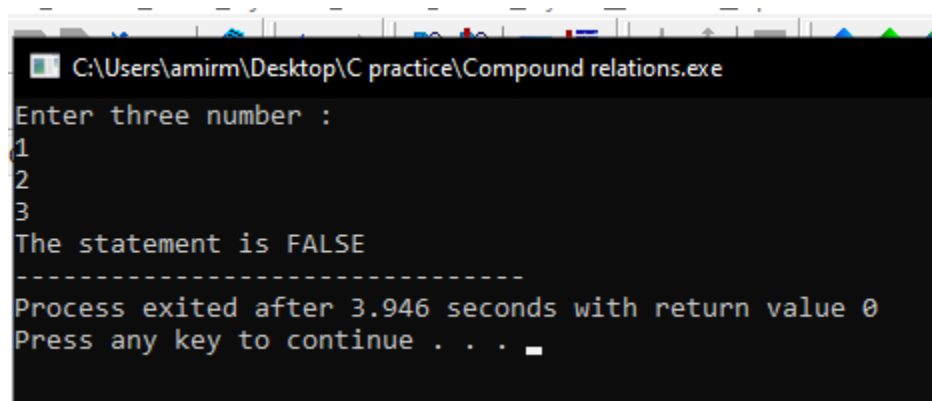
Q.3 Check whether the input number lies in between certain range using && compound relations.

Program.

A screenshot of a code editor with three tabs: 'adsolute.c', 'odd or even.c', and 'Compound relations.c'. The 'Compound relations.c' tab is active, showing a C program. The code is as follows:

```
1  #include <stdio.h>
2  main()
3  {
4  int a, b, c;
5  printf("Enter three number : \n");
6  scanf("%d%d%d", &a, &b, &c);
7  if (a>b&&b<c)
8  printf("The statement is NULL");
9  if (a>10&&b<20)
10 printf("The statement is TRUE");
11 else
12 printf("The statement is FALSE");
13 return 0;
14 }
```

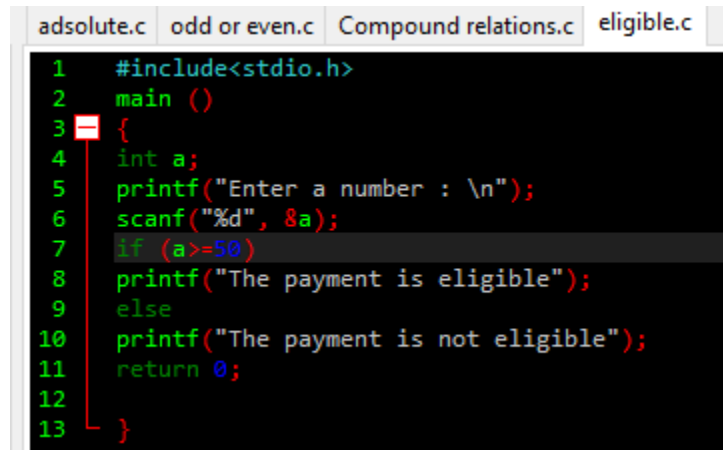
Output.

A screenshot of a console window titled 'C:\Users\amirm\Desktop\C practice\Compound relations.exe'. The output of the program is as follows:

```
Enter three number :
1
2
3
The statement is FALSE
-----
Process exited after 3.946 seconds with return value 0
Press any key to continue . . .
```

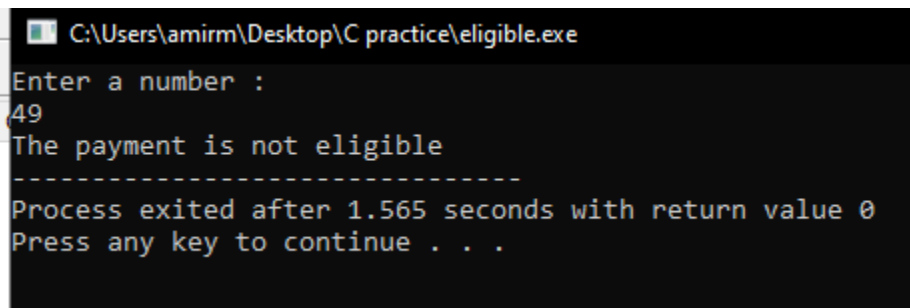
Q.4 Check whether the input payment method is eligible to make payment or not.

Program.



```
1  #include<stdio.h>
2  main ()
3  {
4  int a;
5  printf("Enter a number : \n");
6  scanf("%d", &a);
7  if (a>=50)
8  printf("The payment is eligible");
9  else
10 printf("The payment is not eligible");
11 return 0;
12 }
13 }
```

Output.



```
C:\Users\amirm\Desktop\C practice\eligible.exe
Enter a number :
49
The payment is not eligible
-----
Process exited after 1.565 seconds with return value 0
Press any key to continue . . .
```

Q.5 Write a program to check whether the input year is leap year or not.

Program.

```
absolute.c odd or even.c Compound relations.c eligible.c
1  #include<stdio.h>
2  main()
3  {
4  int a;
5  printf("Enter a number : \n");
6  scanf("%d", &a);
7  if (a==366)
8  printf("The year is leap year");
9  else
10 printf("The year is not leap year");
11 return 0;
12 }
```

Output.

```
C:\Users\amirm\Desktop\C practice\leap year.exe
Enter a number :
365
The year is not leap year
-----
Process exited after 2.531 seconds with return value 0
Press any key to continue . . .
```

The end