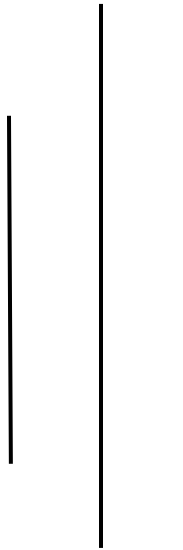




# SHAHD SMARAK COLLEGE

Kirtipur, Kathmandu



*Assignment No. 3 of C programming*

**Submitted by :-**

2<sup>nd</sup> semester

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**Submitted to :-**

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**Q.1 Write a program to illustrate else if ladder program to calculate grades.**

Program.

```
Else if ladder.c
1  #include<stdio.h>
2  main ()
3  {
4  // Note: Instead of grades I have used Captains.
5  int a;
6  printf("Enter a number : \n");
7  scanf("%d", &a);
8  if (a<=100&&a>=70)
9  printf("You are a captain");
10 else if (a>=60)
11 printf("You are a lieutenant");
12 else if (a>=40)
13 printf("You are second seat");
14 else if(a>=30)
15 printf("You are third seat");
16 else
17 printf("You are useless");
18 return 0;
19 }
```

Output.

```
C:\Users\amirm\Desktop\C practice\Else if ladder.exe
Enter a number :
65
You are a lieutenant
-----
Process exited after 3.494 seconds with return value 0
Press any key to continue . . .
```

**Q.2 Write a program to illustrate switch statement: calculator program.**

Program.

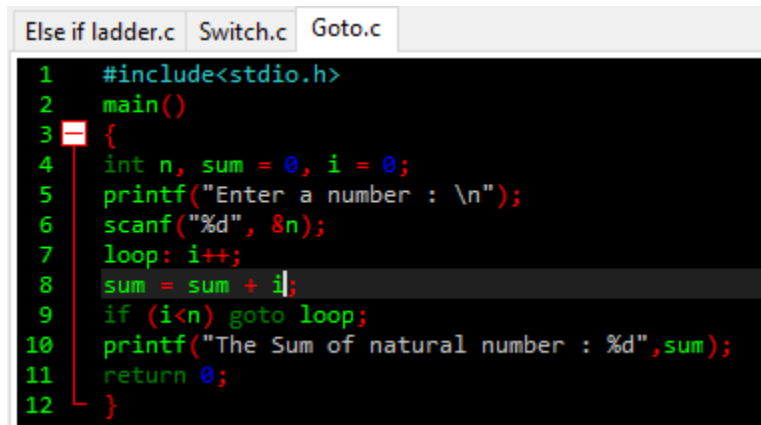
```
Else if ladder.c  [*] Switch.c
1  #include<stdio.h>
2  main()
3  {
4  int FirstNumber, SecondNumber, Result;
5  char operator;
6  printf("Enter Two Numbers : \n");
7  scanf("%d%d", &FirstNumber, &SecondNumber);
8  printf("Enter a operator : \n");
9  scanf("%c\n", &operator);
10 switch (operator)
11 {
12 case '+':
13     Result = FirstNumber + SecondNumber;
14     break;
15 case '-':
16     Result = FirstNumber - SecondNumber;
17     break;
18 case '*':
19     Result = FirstNumber * SecondNumber;
20     break;
21 case '/':
22     Result = FirstNumber / SecondNumber;
23     break;
24 default:
25     printf("Operator not recognized ");
26     break;
27 }
28 printf("%d", Result);
29 }
```

Output.

```
C:\Users\amirm\Desktop\C practice\Switch.exe
Enter Two Numbers :
9
8
Enter a operator :
+
Operator not recognized 0
-----
Process exited after 5.08 seconds with return value 1
Press any key to continue . . .
```

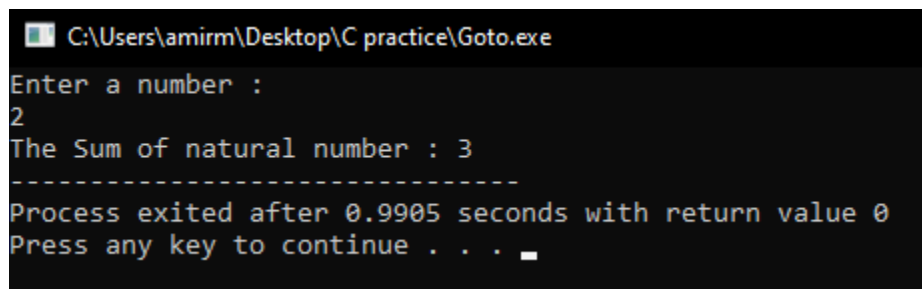
Q.3 Write a program to illustrate go-to statement: calculation sum of natural numbers.

Program.



```
Else if ladder.c Switch.c Goto.c
1  #include<stdio.h>
2  main()
3  {
4  int n, sum = 0, i = 0;
5  printf("Enter a number : \n");
6  scanf("%d", &n);
7  loop: i++;
8  sum = sum + i;
9  if (i<n) goto loop;
10 printf("The Sum of natural number : %d",sum);
11 return 0;
12 }
```

Output.



```
C:\Users\amirm\Desktop\C practice\Goto.exe
Enter a number :
2
The Sum of natural number : 3
-----
Process exited after 0.9905 seconds with return value 0
Press any key to continue . . .
```

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*The End*

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