TUTORIALS - 3

(MODULE - 2)

1. Write a C program to swap two numbers using temporary variable

```
Run
main.c
                                                  -0-
                                                         Save
                                                                               Output
  #include <stdio.h>
                                                                             Enter first number: 145
                                                                            Enter second number: 11
3 - int main() {
       int num1, num2, temp;
                                                                            After swapping:
6
       printf("Enter first number: ");
                                                                            First number = 11
                                                                            Second number = 145
       scanf("%d", &num1);
       printf("Enter second number: ");
8
       scanf("%d", &num2);
       temp = num1;
       num1 = num2;
       num2 = temp;
       printf("\nAfter swapping:\n");
       printf("First number = %d\n", num1);
       printf("Second number = %d\n", num2);
20 }
```

2. swap two numbers without using temporary variable

```
-0-
                                                                    Run
                                                                               Output
main.c
                                                          Save
                                                                             Enter first number: 54
                                                                             Enter second number: 204
3 - int main() {
       int num1, num2;
                                                                             After swapping:
       printf("Enter first number: ");
                                                                             First number = 204
       scanf("%d", &num1);
                                                                             Second number = 54
       printf("Enter second number: ");
       scanf("%d", &num2);
10
       num1 = num1 + num2;
       num2 = num1 - num2;
       num1 = num1 - num2;
       printf("\nAfter swapping:\n");
       printf("First number = %d\n", num1);
       printf("Second number = %d\n", num2);
```

3. program to check whether the given number is even or odd

```
main.c
                                                   -;o;-
                                                          Save
                                                                      Run
                                                                                Output
                                                                               Enter a number: -45
                                                                               -45 is odd.
3 - int main() {
       int num;
       printf("Enter a number: ");
                                                                                    Output
       scanf("%d", &num);
       if (num \% 2 == 0)
                                                                                  Enter a number: 44
           printf("%d is even.\n", num);
                                                                                  44 is even.
           printf("%d is odd.\n", num);
```

4. Enter integer variables a, b, c, d, and e. evaluate the following expressions:

```
I. a + b - c + d
```

II. a * b/c+d

III. 1 + a * b % c

```
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```

IV. a+d %b-c

```
tut2-q4-d.c
-/karthikk

1 //a+d %b-c
2 #tnclude<stdio.h>
3 int main()
4 {
5 int a,b,c,d;
6 int result;
7
8 printf("Enter values for a,b,c,d:");
9 scanf("%d %d %d %d", &a, &b, &c, &d);
10
11
12 result = a + d % b - c;
13 printf("Result:%d\n",result);
14
15 return 0;
16 }

1 //a+d %b-c
-/karthikk

Terminal

File Edit View Search Terminal Help
kcr@kcr-To-be-filled-by-0-E-M:~/karthik-k$ gcc tut2-q4-d.c
kcr@kcr-To-be-filled-by-0-E-M:~/karthik-k$./a.out
Enter values for a,b,c,d:9 7 8 4
Result:5
kcr@kcr-To-be-filled-by-0-E-M:~/karthik-k$

10
11
12 result = a + d % b - c;
13 printf("Result:%d\n",result);
14
15 return 0;
16 }
```