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| **EX.NO. : 1** | **USING INPUT AND OUTPUT FUNCTIONS** |
| **DATE: 11.07.2024** |

**Aim:**

To write a C program which uses input and output functions

**Algorithm:**

**Step 1:** Start the program

**Step 2** : Declare and get the input values for x and y.

**Step 3**: Use a temporary variable temp to swap the values of x and y

**Step 4**: Display the output x and y.

**Step 5:** Stop the execution

**Program Coding:**

#include *<stdio.h>*

#include<conio.h>

int main()

{

int x, y;

clrscr();

printf("Enter Value of x ");

scanf("%d", &x);

printf("**\n**Enter Value of y ");

scanf("%d", &y);

*// Using a temporary variable to swap the values*

*// Store the value of x in a temporary variable*

int temp = x;

*// Assign the value of y to x*

x = y;

*// Assign the value stored in the temporary variable to*

*// y*

y = temp;

printf("**\n**After Swapping: x = %d, y = %d", x, y);

getch();

**return** 0;

}

**RESULT:**

Thus the program executed successfully and results are verified.

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| **Ex. No.: 2** | **USING CONDITIONAL STRUCTURES** |
| **Date:18.07.2024** |

**AIM**

To develop a C program that calculates a grade obtained by a student using if..else if structure.

**PROCEDURE**

Setp 1: Start the program

Setp 2: Get the input values of three subject marks using scanf.

Step 3: Calculate total and average.

Step 4: Assign the grade based on the average value.

Step 5: Print the value of total, average and grade.

Step 6: Stop the execution.

CODING:

#include <stdio.h>

int main (){

int m1,m2,m3,tot;float avg;

char g;

tot=0;

printf("Enter the input values of 3 marks\n");

scanf("%d%d%d",&m1,&m2,&m3);

tot=m1+m2+m3;

printf("Total mark obtained=%d\n",tot);

avg=tot/3;

printf("Average obtained=%f\n",avg);

if(avg>=90)

{

g='O';

}

else if(avg>=80 && avg<90)

{

g='A';

}

else if(avg>=70 && avg<80)

{

g='B';

}

else if(avg>=60 && avg<70)

{

g='C';

}

else if(avg>=50 && avg<60)

{

g='D';

}

else

{

g='E';

}

printf("Grade of a student= %c",g);

return 0;

}

**RESULT:**

Thus the above program executed successfully and the results are verified.

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| **Ex. No.: 3** | **COMMAND LINE ARGUMENTS** |
| **Date:25.07.2024** |

**AIM**

To develop a C program that calculates the summation of command line arguments.

**PROCEDURE**

Setp 1: Start the program

Setp 2: Pass the count of total number of command line arguments as first argument to the main()

Step 3: Pass the program name and other argument values as the next to main()

Step 4: Use for loop to calculate the sum of command line arguments

Step 5: Print the values of arguments and sum

Step 6: Stop the execution.

**CODING:**

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

int main(int argc, char \*argv[])

{

int i, n, sum = 0;

clrscr() ;

if(argc == 1)

{

printf("Please provide command line arguments!!!");

return 0;

}

else

{

printf("Total number of arguments are - %d and sum of those is ", argc);

for(i=0; i<argc ; i++){

n = atoi(argv[i]);

sum += n;

}

printf("%d\n", sum);

return 0;

}

}

**RESULT:**

Thus the above program executed successfully and the results are verified.