# C programming, DCA, 1st semester, 2017



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## DCA assignments - Nagarjuna Science college, Raipur(CG)

**1 - Write a program to print "Hello DCA"**

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program to print "Hello DCA",
  Coded by: Rishikesh Agrawani
*/

// Include header file
#include<stdio.h>

// Definition of main() function
void main()
{
  printf("Hello DCA");
}

/* Output:-
Hello DCA
*/
```

**2 - Write a program for using integers, characters, floats & doubles**

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for using integers, charaters & float & double,
  Coded by: Rishikesh Agrawani
*/

// Include header file
#include<stdio.h>

// Definition of main() function
void main()
{
  // Define integers
  int a = 10, b = 5;
  // Define characters
  char c = 'M', ch = 'H';
  //Define floats
  float f = 67.199692;
  //Define doubles
  double d = 120000.1231231234;

  printf("%d, %d", a, b);   // Printing integers
  printf("\n");   // Printing new line
  printf("Sum of %d and %d is %d", a, b, a+b);  // Printing integers and their sum
  printf("\n");   // Printing new line
  printf("%c, %c", c, ch);  // Printing characters with new line at end
  printf("\n");   //Printing newline
  printf("%f\n", f);  //Printing float followed by newline
  printf("%lf", d);   // Printing double
}

/* Output:-
10, 5
Sum of 10 and 5 is 15
M, H
67.199692
120000.123123
*/
```

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### 3 - Write a program for storing integer values

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for storing integer values,
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
  // Storing 10 into variable a, 5 into variable b, 12 into variable c
  int a = 10, b = 5;
  int c = 12;

  // Printing values stored into integer varaibles a, b, c
  printf("a = %d \n", a);
  printf("b = %d \n", b);
  printf("c = %d \n", c);
}

/* Output:-
a = 10
b = 5
c = 12
*/
```

### 4 - Write a program for storing character values

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for storing character values,
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
  // Storing 'R' into variable c, 'H' into variable ch, 'M' into variable ch2
  char c = 'R';
  char ch = 'H';
  int ch2 = 'M';

  // Printing values stored into character varaibles c, ch, ch2
  printf("c = %c \n", c);
  printf("ch = %c \n", ch);
  printf("ch2 = %c", ch2);
}

/* Output:-
c = R
ch = H
ch2 = M
*/
```

### 5 - Write a program for storing float values

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for storing float values,
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
  // Storing 12.67 into variable f, 34.89 into variable f2, 23.56 into variable f3
  float f = 12.67;
  float f2 = 34.89;
  float f3 = 23.56;
```

```
  // Printing values stored into flaot varaibles f, f2, f3
  printf("f = %f \n", f);
  printf("f2 = %f \n", f2);
  printf("f3 = %f", f3);
}

/* Output:-
f = 12.670000
f2 = 34.889999
f3 = 23.559999
*/
```

### 6 - Write a program for adding 2 integer numbers

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for adding two integer numbers,
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
    int a = 10;
    int b = 5;
    int c;
    c = a + b;

    printf("%d + %d = %d", a, b, c);
}

/* Output:-
10 + 5 = 15
*/
```

### 7 - Write a program for subtracting one integer number from other

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for subtracting one integer number from other,
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
    int a = 10;
    int b = 5;
    int c;
    c = a - b;

    printf("%d - %d = %d", a, b, c);
}

/* Output:-
10 - 5 = 5
*/
```

### 8 - Write a program for multiplying 2 integer numbers

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for multiplying 2 integer numbers,
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
    int a = 10;
```

```
    int b = 5;
    int c;
    c = a * b;

    printf("%d * %d = %d", a, b, c);
}

/* Output:-
10 * 5 = 50
*/
```

9 - Write a program for dividing integers

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for dividing integers,
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
    int a = 10;
    int b = 5;
    int c;
    c = a / b;

    printf("%d / %d = %d", a, b, c);
}

/* Output:-
10 / 5 = 2
*/
```

10 - Write a program for modulus of 2 integers

```
/*
  Date of creation: 11 November 2017,
  Title: Write a program for modulus of 2 integers,
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
    int a = 10;
    int b = 5, c = 3, d = 4;
    int r1, r2, r3;

    r1 = a % b;
    r2 = a % c;
    r3 = a % d;

    printf("%d, %d, %d\n", r1, r2, r3);   /* \n is for printing newline */
    printf("%d: %d: %d\n", r1, r2, r3);
    printf("%d\n%d\n%d", r1, r2, r3);
}

/* Output:-
0, 1, 2
0: 1: 2
0
1
2
*/
```

11 - Write a menu driven program for addition, subtraction, multiplication, division and modulus of 2 integer numbers

```
/*
  Date of creation: 11 November 2017,
```

```
  Title: Write a menu driven program for addition, subtraction, multiplication, divi
  Coded by: Rishikesh Agrawani
*/

#include<stdio.h>

void main()
{
    int a = 10;
    int b = 5;
    int c, choice;

    printf("Arithmetic operations\n");
    printf("1. Addition\n");
    printf("2. Subratcion\n");
    printf("3. Multiplication\n");
    printf("4. Division\n");
    printf("5. Modulus\n");
    printf("Please choose one option:\t");
    scanf("%d", &choice);

    if(choice == 1) {
        c = a + b;
        printf("%d + %d = %d", a, b, c);
    }

    if(choice == 2) {
        c = a - b;
        printf("%d * %d = %d", a, b, c);
    }

    if(choice == 3) {
        c = a * b;
        printf("%d * %d = %d", a, b, c);
    }

    if(choice == 4) {
        c = a / b;
        printf("%d / %d = %d", a, b, c);
    }

    if(choice == 5) {
        c = a % b;
        printf("%d %% %d = %d", a, b, c);
    }
}

/* Output */
/* 1st RUN
Arithmetic operations
1. Addition
2. Subratcion
3. Multiplication
4. Division
5. Modulus
Please choose one option:    1
10 + 5 = 15
*/

/* 2nd RUN
Arithmetic operations
1. Addition
2. Subratcion
3. Multiplication
4. Division
5. Modulus
Please choose one option:    2
10 * 5 = 5
*/

/* 3rd RUN
Arithmetic operations
1. Addition
2. Subratcion
3. Multiplication
4. Division
5. Modulus
Please choose one option:    3
```

```
10 * 5 = 50
*/

/* 4th RUN
Arithmetic operations
1. Addition
2. Subratcion
3. Multiplication
4. Division
5. Modulus
Please choose one option:    4
10 / 5 = 2
*/

/* 5th RUN
Arithmetic operations
1. Addition
2. Subratcion
3. Multiplication
4. Division
5. Modulus
Please choose one option:    5
10 % 5 = 0
*/
```