

//7/ Passing/Exchanging values between functions (-63)

```

#include <stdio.h>

int sum ( x, y, z ) //receiving the values //Formal Arguments
int x, y, z ; //optional for the Argument/parameter datatype
{
    //the parameters'/variables' names can be same as in main() also

    int d ;
    d = x + y + z ;
    return ( d ) ; //fruitful function
    //return(23);
    //return ;
}

int subtract(int p, int q, int r) //check with line no 189 //receiving values
{
    int s;
    s = p + q; //Ignored
    s = p + q - r; //Chosen as it exactly matches with number of parameters
    return (s); //fruitful function
}

void display( )
{
    printf ( "\nHeads I win..." );
    printf ( "\nTails you lose" );
}

int main( )
{
    int x, y, z, final, final1 ; //Actual Variables: Variables inside main()
    //printf ( "\nEnter any three numbers " );
    //scanf ( "%d %d %d", &a, &b, &c );
    final = sum ( 2, 3, 4 ) ; //Actual Value passing for addition
    printf ( "\nSum = %d", final ) ;

    final1 = subtract(2,3,4); //Value passing for subtraction
    printf("\nDifference = %d", final1);
}

```

```

        display();
    }

```

//8/ No restriction on the number of "return stmt"

```
#include <stdio.h>
```

```

int fun( )
{
    int c ='&';
    // printf ( "\nEnter any alphabet " );
    // scanf ( "%c", &ch );
    printf("%d\n", c);

    if ( c >= 65 && c <= 90 )
        return (c);
    else
        return (c+32);
}

```

```

int main()
{
    int result;
    result=fun(); //Very Imp to declare a new variable for passing a value else NO output will
be printed
    printf("%d \n", result);
    return 0;
}

```

//Scope Rule of Functions | Explicitly Pass bw functions | Formal Arguements|Actual Arguments

```
#include <stdio.h>
```

```
int display();
```

```

int main( )
{
    int i = 20 ;
    display ( i );
}

```

```

int display ( int j )
{
    int k = 35 ;
    printf ( "\n%d", j );
}

```

```

        printf ( "\n%d", k );
    }

```

//10 Standard Calling Convention | R-L

```

#include <stdio.h>

int main( )
{
    int a = 1 ;
    printf ( "%d %d %d", a, ++a, a++ ) ;

}

```

//11 Using Library Functions | Format Specifiers | Garbage value |

```

#include <stdio.h>

int main()
{
    int i = 10, j = 20 ;
    printf ( "%d %d %d \n", i, j ) ;
    printf ( "%d", i, j ) ;

}

```

// Predefined/Library Functions

```

#include <stdio.h>
#include <math.h>

int main()
{
    float a=1.0;
    float w,x,y,z;

    w = sin (a);
    x = cos (a);
    y = tan (a);
    z = pow (a, 2);
    printf ( "%f %f %f %f \n", w,x,y,z ) ;

}

```