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## C Input Output (I/O)

```
#include <stdio.h>
int main()
   int testInteger = 5;
    printf("Number = %d", testInteger);
   return 0;
#include <stdio.h>
int main()
   float number1 = 13.5;
   double number2 = 12.4;
    printf("number1 = %f\n", number1);
    printf("number2 = %lf", number2);
   return 0;
}
#include <stdio.h>
int main()
   char chr = 'a';
    printf("character = %c", chr);
   return 0;
}
```

## **C** Input

In C programming, scanf() is one of the commonly used function to take input from the user. The scanf() function reads formatted input from the standard input such as keyboards.

```
#include <stdio.h>
int main()
{
    int testInteger;
    printf("Enter an integer: ");
    scanf("%d", &testInteger);
    printf("Number = %d",testInteger);
    return 0;
}
```

Example of float and double input and output

```
#include <stdio.h>
int main()
{
    float num1;
```

```
double num2;
   printf("Enter a number: ");
   scanf("%f", &num1);
   printf("Enter another number: ");
   scanf("%lf", &num2);
   printf("num1 = %f\n", num1);
   printf("num2 = %lf", num2);
   return 0;
}
Character I/O
#include <stdio.h>
int main()
   char chr;
   printf("Enter a character: ");
   scanf("%c",&chr);
   printf("You entered %c.", chr);
   return 0;
}
ASCII I/O
#include <stdio.h>
int main()
{
   char chr;
   printf("Enter a character: ");
   scanf("%c", &chr);
   // When %c is used, a character is displayed
   printf("You entered %c.\n",chr);
   // When %d is used, ASCII value is displayed
   printf("ASCII value is %d.", chr);
   return 0;
}
I/O Multiple Values
Here's how you can take multiple inputs from the user and display them.
#include <stdio.h>
int main()
   int a;
   float b;
```

// Taking multiple inputs

printf("Enter integer and then a float: ");

```
scanf("%d%f", &a, &b);
        printf("You entered %d and %f", a, b);
        return 0;
     }
     #include <stdio.h>
2
     #include <conio.h>
     void main()
        int a;
        printf("Enter an integer\n");
        scanf("%d", &a);
        printf("Integer that you have entered is %d\n", a);
     /***************
     Output -
     Enter an integer
     Integer that you have entered is 2
     3
     #include <stdio.h>
     int main()
        int number;
        printf( "Please enter a number: " );
        scanf( "%d", &number);
        printf( "You entered %d", number );
        return 0;
     }
     Output
     Run1 -
     Please enter a number: 10
     You entered 10
     Run2 -
     Please enter a number: 20
     You entered 20
     */
     #include <stdio.h>
     void main()
```

```
int a, b, c;
   printf("Enter two numbers to add\n");
   scanf("%d%d",&a,&b);
   c = a + b;
   printf("Sum of entered numbers = %d\n",c);
}
/***************
Enter two numbers to add
Sum of entered numbers = 5
//Float and Double Input/Output
#include <stdio.h>
int main()
   float num1;
   double num2;
   printf("Enter a number: ");
   scanf("%f", &num1);
   printf("Enter another number: ");
   scanf("%lf", &num2);
   printf("num1 = %f\n", num1);
   printf("num2 = %lf", num2);
   return 0;
}
```