```
C:\MyProjects\Cassignments\upload01>cl.exe /c /EHsc 01HelloWorld.cpp
Microsoft (R) C/C++ Optimizing Compiler Version 19.35.32217.1 for x64
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01HelloWorld.cpp

C:\MyProjects\Cassignments\upload01>link.exe 01HelloWorld
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C:\MyProjects\Cassignments\upload01>link.exe 01HelloWorld.obj
Microsoft (R) Incremental Linker Version 14.35.32217.1
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C:\MyProjects\Cassignments\upload01>01HelloWorld.exe
Hello World!!! by Srushti

C:\MyProjects\Cassignments\upload01>
```
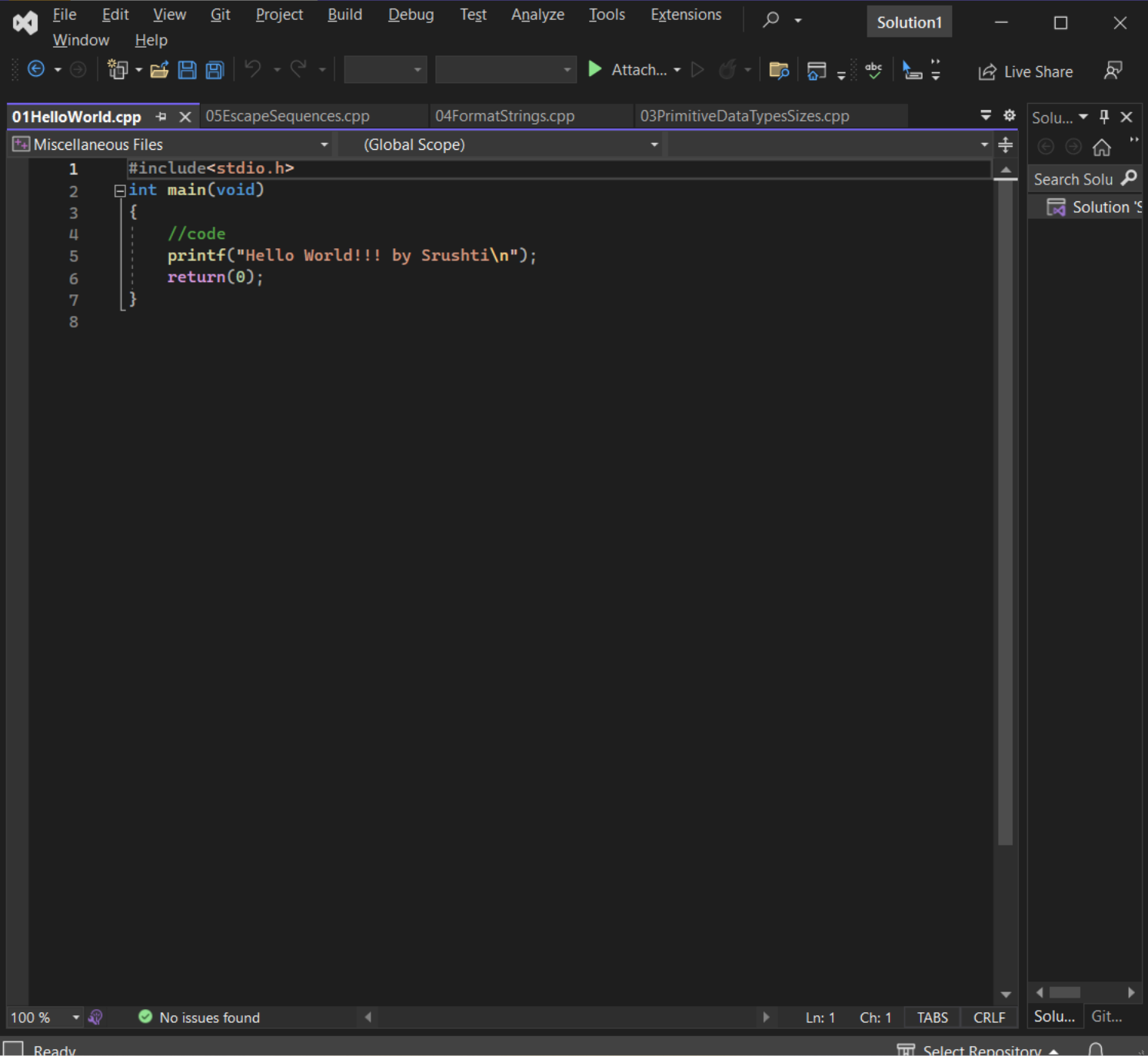
File | Edit | View | Git | Project | Build | Debug | Test | Analyze | Tools | Extensions

Window | Help

Solution1

01HelloWorld.cpp | 05EscapeSequences.cpp | 04FormatStrings.cpp | 03PrimitiveDataTypesSizes.cpp

Miscellaneous Files | (Global Scope)

```c
1    #include<stdio.h>
2    int main(void)
3    {
4        //code
5        printf("Hello World!!! by Srushti\n");
6        return(0);
7    }
8
```

Live Share

Search Solu

Solution '

No issues found

100 %   Ln: 1   Ch: 1   TABS   CRLF

Type here to search

34°C Mostly sunny   ENG   21:21   13-05-2023

```
C:\MyProjects\Cassignments\upload01>link.exe 02variables.obj
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C:\MyProjects\Cassignments\upload01> 02variables.exe


02variables Srushti

i = 5
f = 3.900000
d = 8.041997
c = A


i = 43
f = 6.540000
d = 29.129400
c = p


i = 30
f = 1.544400
d = 3.145678
c = S


C:\MyProjects\Cassignments\upload01>
```

Visual Studio — 02variables.cpp

```c
#include <stdio.h>

int main(void)
{

    // variable declarations
    int i = 5;
    float f = 3.9f;
    double d = 8.041997;
    char c = 'A';

    //code
    printf("\n\n");

    printf("02variables Srushti");

    printf("\n\n");

    printf("i = %d\n", i);
    printf("f = %f\n", f);
    printf("d = %lf\n", d);
    printf("c = %c\n", c);

    printf("\n\n");

    i = 43;
    f = 6.54f;
    d = 29.1294;
    c = 'p';

    printf("i = %d\n", i);
    printf("f = %f\n", f);
    printf("d = %lf\n", d);
    printf("c = %c\n", c);

    printf("\n\n");

    i = 30;
```

```
C:\MyProjects\Cassignments\upload01>cl.exe /c /EHsc 01HelloWorld.cpp
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01HelloWorld.cpp

C:\MyProjects\Cassignments\upload01>link.exe 01HelloWorld
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C:\MyProjects\Cassignments\upload01>link.exe 01HelloWorld.obj
Microsoft (R) Incremental Linker Version 14.35.32217.1
Copyright (C) Microsoft Corporation.  All rights reserved.


C:\MyProjects\Cassignments\upload01>01HelloWorld.exe
Hello World!!! by Srushti

C:\MyProjects\Cassignments\upload01>
```
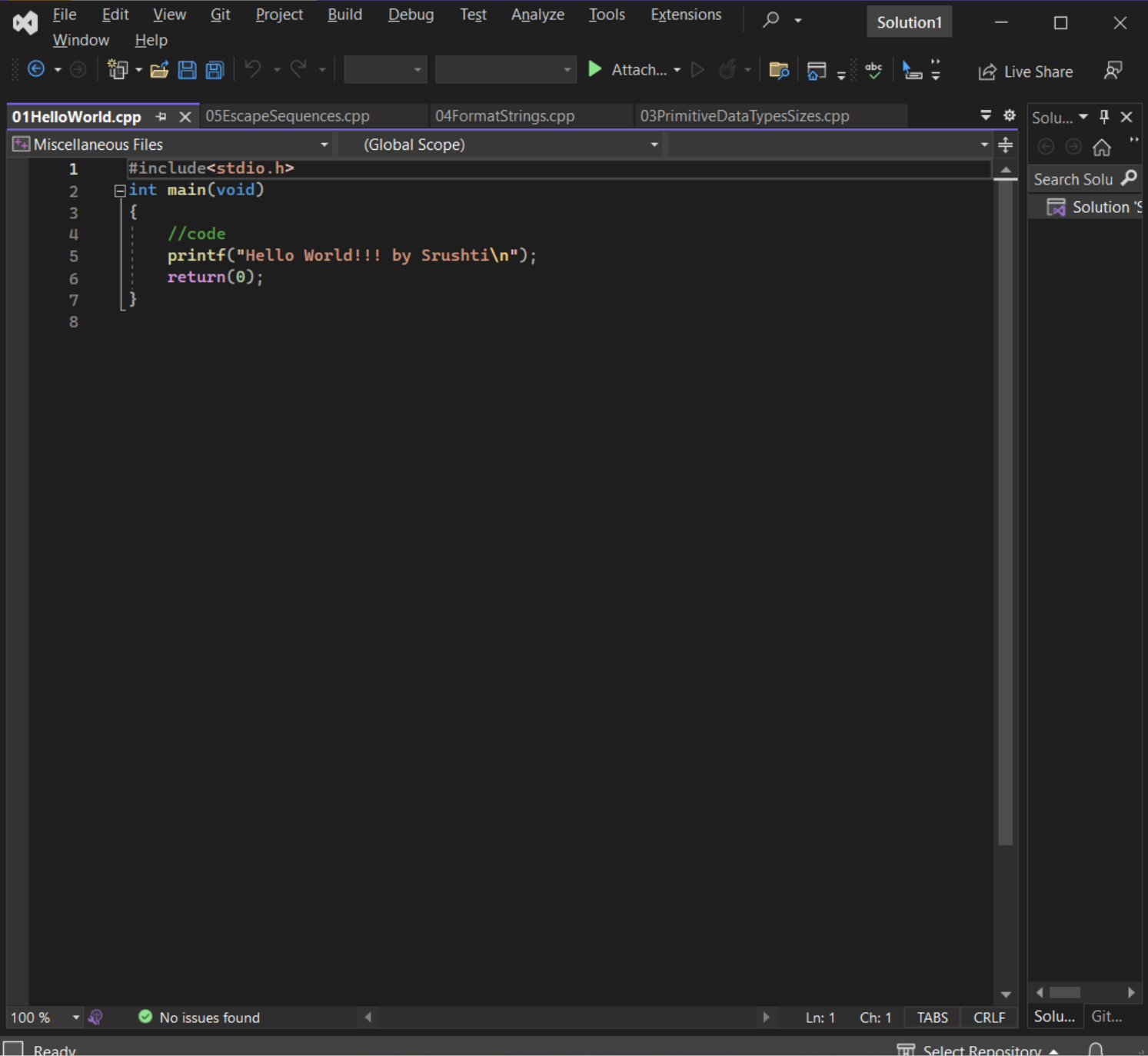
Solution1

01HelloWorld.cpp   05EscapeSequences.cpp   04FormatStrings.cpp   03PrimitiveDataTypesSizes.cpp

Miscellaneous Files   (Global Scope)

```c
#include<stdio.h>
int main(void)
{
	//code
	printf("Hello World!!! by Srushti\n");
	return(0);
}
```

No issues found

```
C:\Program Files\Microsoft Visual Studio\2022\Community

C:\Program Files\Microsoft Visual Studio\2022\Community>cd\

C:\>cd C:\MyProjects\Cassignments\upload01

C:\MyProjects\Cassignments\upload01>cl.exe /c /EHsc 04FormatStrings.cpp
Microsoft (R) C/C++ Optimizing Compiler Version 19.35.32217.1 for x64
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04FormatStrings.cpp

C:\MyProjects\Cassignments\upload01>link.exe 04FormatStrings.obj
Microsoft (R) Incremental Linker Version 14.35.32217.1
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C:\MyProjects\Cassignments\upload01>04FormatStrings.exe


***********************************************************

Hello World !!!

Integer Decimal Value of 'a' = 13
Integer Octal Value Of 'a' = 15
Integer Hexadecimal Value Of 'a' (Hexadecimal Letters In Lower Case) = d
Integer Hexadecimal Value of 'a' (Hexadecimal letters In Lower Case) = D

Character ch = A
String str = Astromedicomp's Real Time Rendering Batch

Long Integer = 30121995

Unsigned Integer 'b' = 7

Floating Point Number With Just %f 'f_num' = 3012.236816
Floating Point Number With %4.2f 'f_num' = 3012.24
Floating Point Number With %6.5f 'f_num' = 3012.23682
Double Precision Floating Point Number Without Exponential = 3.14159
Double Precision Floating Point Number Without Exponential (Lower Case) = 3.141593e+00
Double Precision Floating Point Number Without Exponential (Upper Case) = 3.141593E+00

Double Hexadecimal Value of 'd_pi' (Hexadecimal Letters in Lower Case) = 0x1.921fb51d1153ep+1
Double Hexadecimal Value of 'd_pi' (Hexadecimal Letters in Upper Case) = 0X1.921FB51D1153EP+1

***********************************************************

C:\MyProjects\Cassignments\upload01>
```

Solution1

04FormatStrings.cpp   03PrimitiveDataTypesSizes.cpp   02variables.cpp

Miscellaneous Files   (Global Scope)   main(void)

```cpp
#include <stdio.h>
int main(void)
{
    //code
    printf("\n\n");
    printf("***********************************************************
    printf("\n\n");

    printf("Hello World !!! \n\n");

    int a = 13;
    printf("Integer Decimal Value of 'a' = %d\n", a);
    printf("Integer Octal Value Of 'a' = %o\n", a);
    printf("Integer Hexadecimal Value Of 'a' (Hexadecimal Letters In Low
    printf("Integer Hexadecimal Value of 'a' (Hexadecimal letters In Low

    char ch = 'A';
    printf("Character ch = %c\n", ch);
    char str[] = "Astromedicomp's Real Time Rendering Batch";
    printf("String str = %s\n\n", str);

    long num = 30121995L;
    printf("Long Integer = %ld\n\n", num);

    unsigned int b = 7;
    printf("Unsigned Integer 'b' = %u\n\n", b);

    float f_num = 3012.236726724f;
    printf("Floating Point Number With Just %%f 'f_num' = %f\n", f_num);
    printf("Floating Point Number With %%4.2f 'f_num' = %4.2f\n", f_num);
    printf("Floating Point Number With %%6.5f 'f_num' = %6.5f\n", f_num);

    double d_pi = 3.14159263533897989674586;
    printf("Double Precision Floating Point Number Without Exponential =
    printf("Double Precision Floating Point Number Without Exponential (
    printf("Double Precision Floating Point Number Without Exponential (
    printf("Double Hexadecimal Value of 'd_pi' (Hexadecimal Letters in L
    printf("Double Hexadecimal Value of 'd_pi' (Hexadecimal Letters in U
```

Ln: 43   Ch: 2   TABS   CRLF

No issues found

100 %

Ready

```
***************************************************************************

C:\MyProjects\Cassignments\upload01>cl.exe /c /EHsc

C:\MyProjects\Cassignments\upload01>cl.exe /c /EHsc 05EscapeSequences.cpp
Microsoft (R) C/C++ Optimizing Compiler Version 19.35.32217.1 for x64
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05EscapeSequences.cpp

C:\MyProjects\Cassignments\upload01>link.exe 05EscapeSequences.obj
Microsoft (R) Incremental Linker Version 14.35.32217.1
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C:\MyProjects\Cassignments\upload01>05EscapeSequences.exe


Going On to Next Line.....Using \n Esacpe Sequence

Demonstrating    Horizontal    Tab    Using   \t Escape Sequence !!!

"This Is A Double Quoted Output " Done Using \' \' Escape Sequence

'This Is A Single Quoted Output " Done Using \' \' Escape Sequence

BACKSPACE Turned To Backspac Using Escape Sequence \b

 Demonstrating Carriage Return Using \r Esacpe Sequence
 Carriage Return Using \r Esacpe Sequence
 Return Using \r Esacpe Sequence

Demonstrating A Using \xhh Escape Sequence

Demonstrating B Using \oo Escape Sequence


C:\MyProjects\Cassignments\upload01>
```

05EscapeSequences.cpp

(Global Scope)

```c
#include <stdio.h>
int main(void)
{
    //code
    printf("\n\n");
    printf("Going On to Next Line.....Using \\n Esacpe Sequence\n\n");
    printf("Demonstrating \t Horizontal \t Tab \t Using \t \\t Escape Sequence !!!\n\n");
    printf("\"This Is A Double Quoted Output \" Done Using \\' \\' Escape Sequence\n\n"
    printf("\'This Is A Single Quoted Output \" Done Using \\' \\' Escape Sequence\n\n"
    printf("BACKSPACE Turned To Backspace\b Using Escape Sequence \\b\n\n");

    printf("\r Demonstrating Carriage Return Using \\r Esacpe Sequence\n");
    printf("Demonstrating \r Carriage Return Using \\r Esacpe Sequence\n");
    printf("Demonstrating Carriage \r Return Using \\r Esacpe Sequence\n\n");

    printf("Demonstrating \x41 Using \\xhh Escape Sequence\n\n"); //0x41 Is The hexadecim
    printf("Demonstrating \102 Using \\oo Escape Sequence\n\n"); //102 Is the Octal Code
    return(0);
}
```

```
06Constants.cpp
06Constants.cpp(62): error C2065: 'constant': undeclared identifier
06Constants.cpp(62): error C2144: syntax error: 'double' should be preceded by ';'
06Constants.cpp(109): error C2017: illegal escape sequence
06Constants.cpp(109): error C2065: 'n': undeclared identifier
06Constants.cpp(109): error C2146: syntax error: missing ')' before identifier 'n'
06Constants.cpp(109): error C2146: syntax error: missing ';' before identifier 'n'
06Constants.cpp(109): error C2059: syntax error: ')'
06Constants.cpp(109): error C2065: 'n': undeclared identifier

C:\MyProjects\Cassignments\upload01>cl.exe /c /EHsc /I C:\freeglut\include 06Constants.cpp
Microsoft (R) C/C++ Optimizing Compiler Version 19.35.32217.1 for x64
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06Constants.cpp

C:\MyProjects\Cassignments\upload01>link.exe 06Constants.obj
Microsoft (R) Incremental Linker Version 14.35.32217.1
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C:\MyProjects\Cassignments\upload01>06Constants.exe


Local Constant Epsilon = 0.000001

Sunday is day number = 0
Monday is day number = 1
Tuesday is day number = 2
Wednesday is day number = 3
Thursday is day number = 4
Friday is day number = 5
Saturday is day number = 6

One is Enum number = 0
Two is Enum number = 1
Three is Enum number = 2
Four is Enum number = 3
Five is Enum number = 4
```

```
Sunday is day number = 0
Monday is day number = 1
Tuesday is day number = 2
Wednesday is day number = 3
Thursday is day number = 4
Friday is day number = 5
Saturday is day number = 6

One is Enum number = 0
Two is Enum number = 1
Three is Enum number = 2
Four is Enum number = 3
Five is Enum number = 4
Six is Enum number = 5
Seven is Enum number = 6
Eight is Enum number = 7
Nine is Enum number = 8
Ten is Enum number = 9

January is month number = 1
February is month number = 2
March is month number = 3
April is month number = 4
May is month number = 5
June is month number = 6
July is month number = 7
August is month number = 8
September is month number = 9
October is month number = 10
November is month number = 11
December is month number = 12

Value of TRUE is = 1
Value of FALSE is = 0
MY_PI Macro value = 3.1415926536

Area of circle of radius 2 units = 12.566371
```

```
Six is Enum number = 5
Seven is Enum number = 6
Eight is Enum number = 7
Nine is Enum number = 8
Ten is Enum number = 9

January is month number = 1
February is month number = 2
March is month number = 3
April is month number = 4
May is month number = 5
June is month number = 6
July is month number = 7
August is month number = 8
September is month number = 9
October is month number = 10
November is month number = 11
December is month number = 12

Value of TRUE is = 1
Value of FALSE is = 0
MY_PI Macro value = 3.1415926536

Area of circle of radius 2 units = 12.566371




AstroMediComp RTR

AMC_STRING is : AstroMediComp RTR



C:\MyProjects\Cassignments\upload01>
```