

PRACTICAL NO;-3

AIM:- USE OF VARIOUS DAT TYPE ALONG WITH FORMAT SPECIFIER AND SWAPING OF TWO NUMBERS.

- WAP TO FIND SUM OF TWO INTEGERS.

SOLUTION-#INCLUDE<stdio.h>

```
int main (){  
    int a=5;  
    int b=6;  
    int c=a+b;  
    printf("dev pathak\n");  
    printf("sum of two numbers;%d",c);  
    return 0;  
}
```

Here we can identify that %d is used in printing the integer value which is format specifier of integer.

Output;--

The screenshot shows a Microsoft Visual Studio Code window with the following details:

- Editor Area:** Displays a C program named "Untitled-1.c". The code includes #include <stdio.h>, variable declarations for a, b, and c, and printf statements for both variables.
- Output Panel:** Shows the terminal output of the program's execution. It includes the standard library loading messages, the developer's name ("Dev pathak"), and the calculated sum ("sum 10").
- Bottom Status Bar:** Provides information about the current file ("C:\Users\DELL\Desktop\c program\Untitled-1.exe"), the number of lines and columns (Ln 1, Col 8), and the encoding (UTF-8). It also shows the date and time (10/13/2025, 9:14 PM).

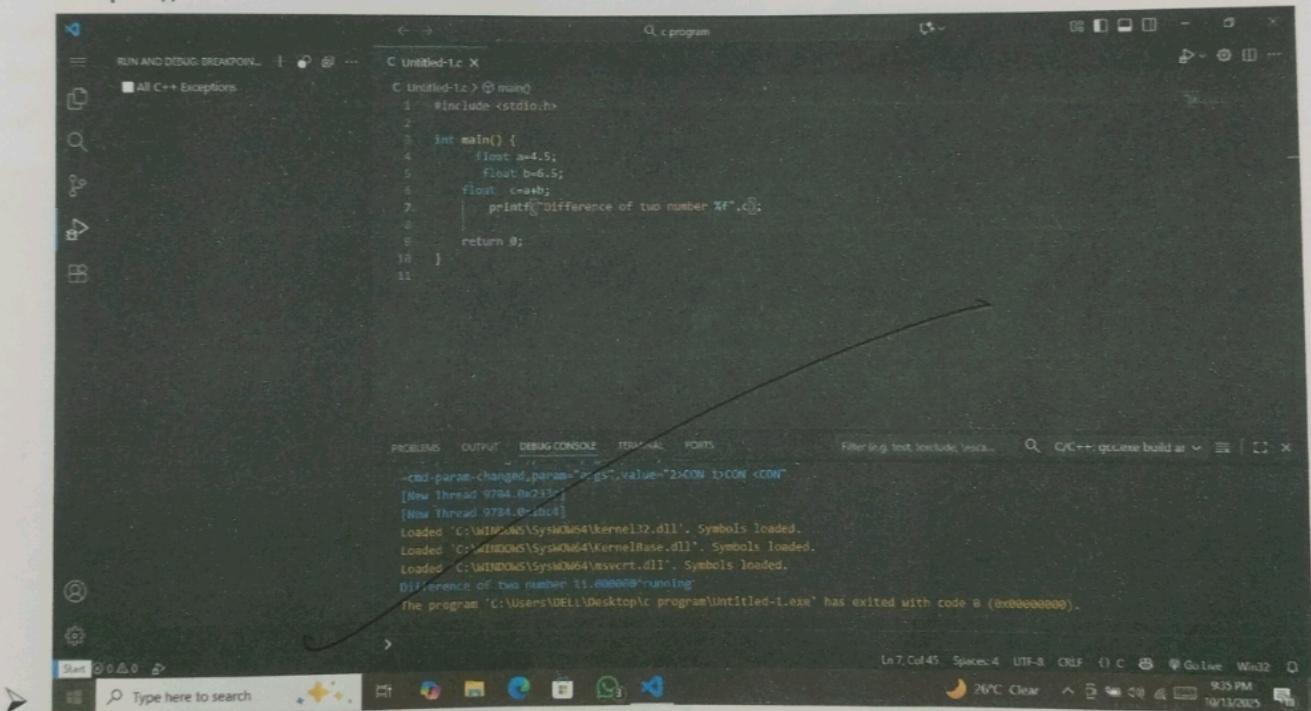
❖ WAP TWO FIND DIFFERENCE OF TWO DECIMAL NUMBERS.

SOLUTION:-

```
#include<stdio.h>
Int main(){
    Float a=9.8;
    Float b=8.6;
    Float c=a-b;
    Printf("DIFFERENCE OPF TWO NUMBERS %F" C);
    return0;
}
```

Here we can identify that %f is used in printing the float value which is format specifier of float.

➤ Output:-



The screenshot shows a Microsoft Visual Studio Code window. On the left is the 'RUN AND DEBUG BREAKPOINT...' sidebar. The main editor area contains the following C code:

```
C Untitled-1.c X
C Untitled-1.c > main()
1  #include <stdio.h>
2
3  int main() {
4      float a=4.5;
5      float b=6.5;
6      float c=a-b;
7      printf("Difference of two number %f",c);
8
9  return 0;
10 }
11
```

Below the code, the 'OUTPUT' tab is selected, showing the terminal output:

```
-cd-param-changed,parses="msg",value="2>CON <CON"
[New Thread 9784.0x213]
[New Thread 9784.0x4c4]
Loaded 'C:\WINDOWS\SYSTEM32\kernel32.dll'. Symbols loaded.
Loaded 'C:\WINDOWS\SYSTEM32\kernelBase.dll'. Symbols loaded.
Loaded 'C:\WINDOWS\SYSTEM32\msvcrt.dll'. Symbols loaded.
Difference of two number -1.000000
The program 'C:\Users\DELL\Desktop\c program\Untitled-1.exe' has exited with code 0 (0x00000000).
```

The status bar at the bottom right shows the date and time as '7/13/2023 9:35 PM'.

- ❖ Wap to convert ascii code to integer and forward 3 characters to the input

Solution # include<stdio.h>

```
Int main(){
    Chara='A';
    Printf("character is %c\n",a);
    Printf("ASCII Code of character is%d\n",a);
    Char b=a+3;
    Printf("THREE CHARACTER AFTER IS %c",b);
    Return0;
```

- ❖ Here we can identify that %c is used in printing the character value which is format specifier of character
- ❖ Output:-

The screenshot shows the Microsoft Visual Studio Code interface. The code editor displays a file named 'Untitled-1.c' with the following content:

```
int main() {
    char a='A';
    printf("character is %c\n",a);
    printf("ASCII Code of character is%d\n",a);
    char b=a+3;
    printf("three characters after is %c",b);
    return 0;
}
```

Below the code editor is the terminal window, which shows the execution of the program:

```
PS C:\Users\DELL\Desktop\c program> cd "C:\Users\DELL\Desktop\c program\"; if ($?) { gcc Untitled-1.c -o Untitled-1 } ; if ($?) { .\Untitled-1 }
character is A
ASCII Code of character is 65
three characters after is D
PS C:\Users\DELL\Desktop\c program>
```

The terminal output is highlighted with a large red circle and a handwritten note pointing to it.

❖WAP TO INPUT TWO NUMBERS AND SWAP EACH OTHER

➤ SOLUTION:-

The screenshot shows a Microsoft Visual Studio Code window with the following details:

- File Explorer:** Shows a file named "Untitled-1.c".
- Code Editor:** Displays the following C code:

```
1 #include<stdio.h>
2
3 int main(){
4     int a,b,c;
5     printf("Dev pathak-10453\n");
6     printf("enter a number");
7     scanf("%d",&a);
8     printf("enter a number");
9     scanf("%d",&b);
10    c=a;
11    a=b;
12    b=c;
13    printf("after swapping \n");
14    printf("a is %d\n",a);
15    printf("b is %d\n",b);
16
17    return 0;
18
19 }
```
- Terminal:** Shows the command-line output of the program execution:

```
PS C:\Users\DELL\Desktop\c program> cd "c:\Users\DELL\Desktop\c program" ; if ($?) { gcc Untitled-1.c -o Untitled-1 } ; if ($?) { ./Untitled-1 }
Dev pathak-10453
enter a number45
enter a number65
after swapping
a is 227376
b is 45
PS C:\Users\DELL\Desktop\c program>
```
- Bottom Status Bar:** Shows the current file is "Untitled-1.c", line 5, column 34, spaces: 2, encoding: UTF-8, CR/LF, C/C++, port: 5500, Win32, and the date/time: 10/13/2025.

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface with the following details:

- File:** Untitled-1.c
- Content:** A C program that swaps three integers (a, b, c) and prints them.

```
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("Dev pathak-10453\n");
    printf("enter a number");
    scanf("%d",&a);
    printf("enter a number");
    scanf("%d",&b);
    printf("enter a number");
    scanf("%d",&c);
    a=b;
    b=c;
    printf("after swapping \n");
    printf("a is %d\n",a);
    printf("b is %d\n",b);
    return 0;
}
```

- Terminal Output:**

```
PS C:\Users\DELL\Desktop\c program> cd "c:\Users\DELL\Desktop\c program" ; if ($?) { gcc Untitled-1.c -o Untitled-1 } ; if ($?) { .\Untitled-1 }
Dev pathak-10453
enter a number45
enter a number45
enter a number45
a is 2277376
b is 45
PS C:\Users\DELL\Desktop\c program>
```
- Bottom Status Bar:**

Ln 5, Col 34 Spaces:2 UTF-8 CRLF ⌂ C ⌂ Port:5500 Win32 ⌂
25°C Clear ⌂ 10:51 PM ⌂ 10/13/2025 ⌂

Jamie
10/10/25