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| **Practical Number** | 02 |
| **Areas covered** | Data Input & output |

Write a C program for each of the following question

**Question 1**

Have the computer print

**HI, HOW OLD ARE YOU?**

on one line. The user then enters his or her age immediately after the question mark. The computer then skips two lines and prints on two consecutive lines.

**WELCOME (age)**

**LET’S BE FRIENDS!**

Write a complete C program to do the above.

#include<stdio.h>

int main()

{

int age;

printf("HI, HOW OLD ARE YOU?");

scanf("%d",&age);

printf("\n\n WELCOME%d\n"",age);

printf("LET'S BE FRIENDS\n");

return 0;

}

**Question 2**

Write a program which uses the **format commands** with modifiers to print the following output:

**#include<stdio.h>**

**int main()**

**{**

**printf("%\n",2,4,8);//Right Align**

**printf("%5d%5d%5d\n",3,9,27);//Rght Align**

**printf("%5d%5d%5d\n",4,16,64);//Right Align**

**printf("%5d%5d%5d\n",5,25,125);//Right Align**

**printf("\n\n\n\n");**

**return 0;**

**}**

***Remark:***

***Observe how format commands are used in the following program.***

Remark:

1 2

10 20

1 2

10 20

Process returned 0 (0x0) execution time : 0.029 s

Press any key to continue.

**Question 3**

Write a simple program to evaluate the average speed of a car traveled in meters per second (ms-1). Given that

#include<stdio.h>

int main()

{

float avg,dt,time;

printf("enter the distance travelled");

scanf("%f",&dt);

printf("enter the time taken");

scanf("%f",&time);

avg=(dt/time);

printf("the avarage distance travelled%2f",avg);

}

Try using integer variables. What would be the problem? Why? How to fix the problem?

**Question 4**

Convert a temperature reading in degrees Fahrenheit to degrees Celsius, using the formula

**C = ( 5 / 9 ) x ( F – 32 )**

Test the program with the following values: 68, 150, 212, 0, -22, -200 (degree Fahrenheit).

#include <stdio.h>

int main()

{

float C,F;

printf("Enter the Fahrenheit value");

scanf("%f",&F);

C=(5.00/9.00)\*(F-32.00);

printf("The fahrenheight%.2f value is equal to Celsius %.2f%",F,C);

}#include <stdio.h>

int main()

{

float C,F;

printf("Enter the Fahrenheit value");

scanf("%f",&F);

C=(5.00/9.00)\*(F-32.00);

printf("The fahrenheight%.2f value is equal to Celsius %.2f%",F,C);

}