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

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.

**Question 2**

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

|  |  |  |
| --- | --- | --- |
| **2** | **4** | **8** |
| **3** | **9** | **27** |
| **4** | **16** | **64** |
| **5** | **25** | **125** |

***Remark:***

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

#include <stdio.h>

int main()

{

printf("%5d%5d\n", 1, 2); //Right Align

printf("%5d%5d\n", 10, 20); //Right Align

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

printf("%-5d%-5d\n", 1, 2); //Left Align

printf("%-5d%-5d\n", 10, 20); //Left Align

return 0;

}

**Question 3**

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

**Distance travelled**

\_\_\_

**Time taken**

**Average speed =**

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).

**Question 5**

What will be output of the following program?

#include<stdio.h>

int main(){

    int i=5,j;

    j=++i+++i+++i;

    printf("%d %d",i,j);

    return 0;

}

**Question 6**

What will be output of the following program?

#include<stdio.h>

int main(){

    int i=1;

    i=2+2\*i++;

    printf("%d",i);

    return 0;

}

**Question 7**

What will be output of the following program?

#include<stdio.h>

int main(){

    int a=2,b=7,c=10;

    c=a==b;

    printf("%d",c);

    return 0;

}

**Question 8**

What will be output of the following program?

#include<stdio.h>

int main(){

    int a=0,b=10;

    if(a=0){

         printf("true");

    }

    else{

         printf("false");

    }

    return 0;

}

**Question 9**

What will be output of the following program?

#include<stdio.h>

int main(){

    int a;

    a=015 + 0x71 +5;

    printf("%d",a);

    return 0;

}

**Question 10**

What will be output of the following program?

#include<stdio.h>

int main(){

     int i=5;

     int a=++i + ++i;

     printf("%d",a);

     return 0;

}