Q1.Write a C program to take input of three subject marks (integers) from the user. The program should calculate

the total marks and the percentage (out of 300). Display the results with 2 digits after the decimal point.

CODE

#include <stdio.h>

int main(){

float sub;

float sub2;

float sub3;

float sum;

float per;

printf("give me MARKS OF subject1:\n");

scanf("%f", &sub);

printf("give me MARKS OF subject2:\n");

scanf("%f", &sub2);

printf("give me MARKS OF subject3:\n");

scanf("%f", &sub);

sum = sub + sub2 + sub3;

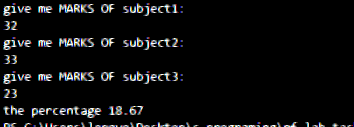
per = (sum / 300) \* 100;

printf("the percentage %.2f ",per);

return 0;

}

result



Q2Write a C program to input two integer variables and swap their values and print the values after swapping.

This is how it looks like after swapping.

Input → a = 10, b = 20

Output → a = 20, b = 10

#include <stdio.h>

int main(){

int a,b,temp;

printf("give me a num:");

scanf("%d", &a);

printf("give me a num:");

scanf("%d", &b);

temp = a;

a = b;

b = temp;

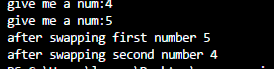
printf("after swapping first number %d \n",a);

printf("after swapping second number %d \n4",b);

return 0;

}

Result



Q3Write a C program that takes an integer (between 65 and 90) as input and prints:

1. The integer itself

2. Its corresponding ASCII character

Input → 65

Output → 65 = A

#include <stdio.h>

int main(){

int number;

printf("Enter an integer between 65 and 90: ");

scanf("%d", &number);

if (number >= 65 && number <= 90) {

printf("%d = %c\n", number, number);

} else {

printf("Invalid input! Please enter a number between 65 and 90.\n");

}

return 0;

}

Result



Q4 codeIn a company, an employee’s salary is calculated by adding certain allowances to the basic salary. Two types

of allowances are considered: House Rent Allowance (HRA): 10% of the basic salary , Dearness Allowance

(DA): 5% of the basic salary

Write a C program that:

1. Takes the employee’s basic salary (a float value) as input.

2. Calculates the values of HRA and DA.

3. Computes the Gross Salary using the formula:

#include <stdio.h>

int main(){

float basicSalary;

float HRA;

float DA;

float grossSalary;

printf("enter your basicSalary:");

scanf("%f", &basicSalary);

HRA = basicSalary \* 0.1;

DA = basicSalary \* 0.05;

grossSalary = basicSalary + HRA + DA;

printf("GROSS SALARY IS .2%f", grossSalary);

return 0;

Result



Q5 .Escape sequences in C (like \n, \t, \") are used to format text output. In this task, you will practice using

escape sequences.Write a C program that displays the following details exactly in the same format as shown

below:

Name: Ali

Age: 20

Course: "C Programming"

Result: Passed

• Note that the double quotes around C Programming must also be displayed.

• Use escape sequences (like \" for quotes, \n for new lines, etc.) to achieve the formatting.

}#include <stdio.h>

// Escape sequences in C (like \n, \t, \") are used to format text output. In this task, you will practice using

// escape sequences.Write a C program that displays the following details exactly in the same format as shown

// below:

// Name: Ali

// Age: 20

// Course: "C Programming"

// Result: Passed

int main(){

printf("Name: ALI\n");

printf("Age: 20\n");

printf("Course: \"C Programming\"\n");

printf("Result: Passed\n");;

return 0;

}

RESULT

