**Q1. Write a C program to accept the marks obtained by a student in 5 courses and calculate average and percentage. (Consider maximum marks in a course is 100).**

#include<stdio.h>

void main()

{

int m1,m2,m3,m4,m5;

float sum,average,percentage;

printf("Enter the marks for first subject(within 100): ");

scanf("%d",&m1);

printf("Enter the marks for second subject(within 100): ");

scanf("%d",&m2);

printf("Enter the marks for third subject(within 100): ");

scanf("%d",&m3);

printf("Enter the marks for fourth subject(within 100): ");

scanf("%d",&m4);

printf("Enter the marks for fifth subject(within 100): ");

scanf("%d",&m5);

sum=m1+m2+m3+m4+m5;

average=sum/5;

percentage=(sum/500)\*100;

printf("The sum is: %f",sum);

printf("\nThe average is: %f",average);

printf("\nThe percentage is: %f",percentage);

}

**Output:**

Enter the marks for first subject(within 100): 87

Enter the marks for second subject(within 100): 95

Enter the marks for third subject(within 100): 92

Enter the marks for fourth subject(within 100): 83

Enter the marks for fifth subject(within 100): 100

The sum is: 447.000000

The average is: 89.400002

The percentage is: 89.400002

Q2. Write a C program to accept the radius of circle and find the area & perimeter of circle:

for example, constant for pi=3.14

Area=pi r\*r; and perimeter =2\*pi\*r;

#include <stdio.h>

#define pi 3.14

int main()

{

float r,p,a;

printf("Enter the radius: ");

scanf("%f",&r);

p=2\*pi\*r;

a=pi\*(r\*r);

printf("Perimeter is: %f",p);

printf("\nArea is : %f",a);

}

Output:

Enter the radius: 7

Perimeter is: 43.959999

Area is : 153.860001

Q3. The total salary of any employ is combination of basic, HRA and allowance. The HRA is 40% of Basic. The basic and allowance will be accepted from the user. Write a C program to calculate the total salary and display.

#include <stdio.h>

void main()

{

int salary, basic, allow;

float HRA;

printf("Enter basic: " );

scanf("%d", &basic);

printf("Enter allowance: " );

scanf("%d", &allow);

HRA= (basic\*40)/100;

salary=basic+HRA+allow;

printf("Salary = %d", salary);

}

Output:

Enter basic: 5000

Enter allowance: 1000

Salary= 8000

Q4. Write a C program to accept 4 digit number from the input device and perform the sum of its digits.

example: Input: 1234

output: 4 + 3+ 2 + 1 = 10

#include <stdio.h>

void main()

{

int num,sum=0;

printf("Enter the number: ");

scanf("%d",&num);

while(num!=0)

{

sum+=num%10;

num/=10;

}

printf("The sum of digits of the number is: %d",sum);

}

OR

#include <stdio.h>

void main()

{

int num,sum=0,rem;

printf("Enter the number: ");

scanf("%d",&num);

rem=num%10;

sum+=rem;

num/=10;

rem=num%10;

sum+=rem;

num/=10;

rem=num%10;

sum+=rem;

num/=10;

rem=num%10;

sum+=rem;

num/=10;

printf("The sum of digits of the number is: %d",sum);

}

Output:

Enter the number: 1234

The s sum of digits of the number is: 10