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**Practical – 1: Basic Input/Output Operation**

1. **Program to read two integer and two floating point numbers.**

#include<stdio.h>

#include<conio.h>

void main()

{

int n1,n2;

float num1,num2;

printf("Enter two integrs ");

scanf("%d%d",&n1,&n2);

printf("Enter two float numbers ");

scanf("%f%f",&num1,&num2);

printf("Integrs number:%d %d",n1,n2);

printf("\nFloat number:%f %f",num1,num2);

getch();

}

1. **Program to accept the marks of 5 subjects and finds the sum and percentage marks**

**obtained by the student.**

#include<stdio.h>

#include<conio.h>

void main()

{

double m1,m2,m3,m4,m5,sum;

float perc;

printf("Enter 5 subjects marks");

scanf("%lf%lf%lf%lf%lf",&m1,&m2,&m3,&m4,&m5);

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

perc=(sum\*100)/500;

printf("Sum of marks is %lf",sum);

printf("\nPercentage is %lf",perc);

getch();

}

**3. Program to calculate the simple interest and compound interest (The Principal,**

**Amount, Rate of Interest and Time are entered through keyboard).**

#include<stdio.h>

#include<math.h>

void main()

{

float p,r,t;

float si,ci;

printf("Enter principal amount:");

scanf("%f",&p);

printf("Enter rate :");

scanf("%f",&r);

printf("Enter time:");

scanf("%f",&t);

si=(p\*r\*t)/100;

ci=p\*pow((1+r/100),t);

printf("Simple interest is %f",si);

printf("\ncompound interest is %0.2f",ci);

}

1. **Program to calculate the area and circumference of a circle.**

#include<stdio.h>

#include<conio.h>

void main()

{

int radius,area,circumference;

printf("Enter radius ");

scanf("%d",&radius);

area=3.14\*radius\*radius;

circumference=2\*3.14\*radius;

printf("Area of circle :%lf",radius);

printf("\nCircumference of circle:%f",circumference);

getch();

}

1. **Program that accepts temperature in Centigrade and converts into Fahrenheit using the formula C/5 = (F-32)/9.**

#include<stdio.h>

#include<conio.h>

void main()

{

float C,F;

printf("Enter temperature in centigrade:");

scanf("%f",&C);

F=(C\*9/5)+32;

printf("Fahrenheit temperature :%0.2f",F);

getch();

}

1. **Program that swaps values of two variables using a third variable.**

#include<stdio.h>

#include<conio.h>

void main()

{

int a,b,c;

printf("Enter two numbers:");

scanf("%d%d",&a,&b);

c=b;

b=a;

a=c;

printf("Swap values of a is :%d and b is: %d",a,b);

getch();

}

1. **Program that swaps the values of two variables without using a 3 rd variable.**

#include<stdio.h>

#include<conio.h>

void main()

{

int a,b;

printf("Enter value of a:");

scanf("%d",&a);

printf("Enter value of b:");

scanf("%d",&b);

a=a\*b;

b=a/b;

a=a/b;

printf("Swap values of a :%d and b:%d",a,b);

getch();

}

1. **Program to calculate and print the area of triangle, where the three sides of the**

**triangle is given as input.**

#include<stdio.h>

#include<conio.h>

#include<math.h>

void main()

{

double s,Area,k;

int a,b,c;

printf("Enter three sides:");

scanf("%d%d%d",&a,&b,&c);

s=(a+b+c)/2;

k=(s-a)\*(s-b)\*(s-c);

Area=sqrt(s\*k);

printf("Area of triangle:%0.2lf",Area);

getch();

}