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**Assignment #1**

1. WAP to declare variable of all data types, read the values and display them.

# include<stdio.h>

# include<conio.h>

int main(){

    int a;

    float b;

    double c;

    char chare;

    printf("\n Enter a integer :-");

    scanf("%d",&a);

    printf("\nEnter float :-");

    scanf("%f",&b);

    printf("\n enter a double:-");

    scanf("%lf",&c);

    printf("\nEnter a character :-");

    scanf("%c",&chare);

    printf("\n You have entered a %d integer,%f float,%lf double and %c character!",a,b,c,chare);

    return 0;

}

1. WAP to read distance between two cities (in km) and display the distance in meters, feet, inches and centimeters.

#include<stdio.h>

void main(){

    float km, m, ft, inch;

    printf("Enter the distance between Dhangadi  And Baitadi :-");

    scanf("%f",&km);

    m = km\*1000;

    ft= km\*3280.83;

    inch= km\*39370.1;

    printf("The distance in meter:-%f \nft:-%f \ninch:-%f",m,ft,inch);

}

1. WAP to read marks obtained by a student in 5 subjects. Read the full marks of each subject as well. Print the percent scored by the student.

#include<stdio.h>

 void main(){

     float a,b,c,d,e,marks,totalmarks,percentage;

     printf("Marks obtained in Physics :");

     scanf("%f",&a);

     printf("Marks obtained in Maths :");

     scanf("%f",&b);

     printf("Marks obtained in Electrical :");

     scanf("%f",&c);

     printf("Marks obtained in Computer Programming :");

     scanf("%f",&d);

     printf("Marks obtained in Drawing :");

     scanf("%f",&e);

     printf("Total marks:");

     scanf("%f",&totalmarks);

     marks=a+b+c+d+e;

     percentage=(marks/totalmarks)\*100;

     printf("Marks obtained:%f",marks);

     printf("\nPercentage obtained:%2f",percentage);

 }

1. WAP to read temperature in Fahrenheit and convert it into centigrade.

C=5/9 (F-32)

#include<stdio.h>

int main(){

    float c,f;

   printf("Enter temperature in fahernheit :");

   scanf("%f",&f);

   c=((f-32)\*5)/9;

   printf("temperature in celcius :%2f celcius",c);

    return 0;

}

1. The length and breadth of a rectangle and radius of a circle are input through the keyboard. WAP to calculate the are & perimeter of the rectangle and the area & circumference of the circle.

#include<stdio.h>

int main(){

    float l,b,a,p,A,c,r,pie;

    printf("\nlength of rectangle :");

    scanf("%f",&l);

    printf("\nBreadth of the rectangle :");

    scanf("%f",&b);

    a=l\*b;

    p=2\*(l+b);

    printf("\nArea of the rectangle :%2f",a);

    printf("\nPerimeter of the rectangle :%2f",p);

    printf("\nEnter the radius of circle :");

    scanf("%f",&r);

    pie=3.14;

    A=pie\*r\*r;

    c=2\*pie\*r;

    printf("\nArea of the circle :%2f",A);

    printf("\nCircumference of the circle :%2f",c);

    return 0;

}

1. WAP to read two numbers and swap (interchange) their values.

#include<stdio.h>

int main(){

    int a,r,q,f;

    printf("Enter the two digit number:");

    scanf("%d",&a);

    r=a%10;

    q=a/10;

    f=(r\*10)+q;

    printf("Let wap this number:%d",f);

    return 0;

}

1. If five digit number is input through the keyboard,
   1. calculate the sum of its digits.
   2. reverse the number
   3. Sum the first and last digit.

#include<stdio.h>

int main(){

    int a,b,c,d,e,f,sum,reverse,sum2,x;

    printf("Enter a 5 digit number:");

    scanf("%d",&a);

    b=a/10000;//first digit

    f=a%10;//last digit

    x=a%10000;//reminder not including first digit

    c=x/1000;//second digit

    d=(x%1000)/100;//third digit

    e=((x%1000)%100)%10;//fourth digit

    sum=b+c+d+e+f;

    sum2=b+f;

    reverse=f\*10000+e\*1000+d\*100+c\*10+b;

    printf("\nThe sum of the digits:%d",sum);

    printf("\nThe sum of the first and last digit :%d",sum2);

    printf("\nThe reverse of the digits :%d",reverse);

    return 0;

}

1. WAP to solve the polynomial equation of order 5.



#include<stdio.h>

int main(){

    int a,b,c,d,x,y;

    printf("Enter the value of x :");

    scanf("%d",&x);

    a=x\*x\*x\*x\*x;

    b=10\*x\*x\*x\*x;

    c=8\*x\*x\*x;

    d=4\*x;

    y=a+b+c+d;

    printf("the value of y :%d",y);

    return 0;

}

1. WAP to read two numbers and find the quotient and remainder.

#include<stdio.h>

int main(){

    int a,b,c,d,e,f,sum,reverse,sum2,x;

    printf("Enter a 5 digit number:");

    scanf("%d",&a);

    b=a/10000;//first digit

    f=a%10;//last digit

    x=a%10000;//reminder not including first digit

    c=x/1000;//second digit

    d=(x%1000)/100;//third digit

    e=((x%1000)%100)/10;//fourth digit

    sum=b+c+d+e+f;

    sum2=b+f;

    reverse=f\*10000+e\*1000+d\*100+c\*10+b;

    printf("\nThe sum of the digits:%d",sum);

    printf("\nThe sum of the first and last digit :%d",sum2);

    printf("\nThe reverse of the digits :%d",reverse);

    return 0;

}

1. WAP to read time in total seconds and convert it into hr,min,sec.
2. #include<stdio.h>
3. int main(){
4. float s,mins,hrs;
6. printf("Enter time in seconds :");
7. scanf("%f",&s);
8. mins= (s/60);
9. hrs= (s/3600);
10. printf("\nTime in seconds :%f",s);
11. printf("\nTime in mins :%f",mins);
12. printf("\nTime in hours :%f",hrs);
13. return 0;
14. }