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Batch: 23.1

# **Tutorial 07**

Q1: Write a function that will read 2 numbers and calculate and display sum and difference.

#include <stdio.h>

void displaySD()

{

int n1,n2,sum,diff;

printf("Enter two numbers ");

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

sum=n1+n2;

diff=n1-n2;

printf("The sum is %d \n",sum);

printf("The difference is %d \n",diff);

}int main()

{

displaySD();

}

Q2: Write a function that accepts 2 numbers as parameters and calculate and display sum and difference.

#include <stdio.h>

void displaySD(int a,int b)

{

int sum,diff;

sum=a+b;

diff=a-b;

printf("The sum is %d \n",sum);

printf("The difference is %d \n",diff);

}int main()

{

int n1,n2;

printf("Enter two numbers ");

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

displaySD(n1,n2);

}

Q3: Write a function that accepts 2 whole numbers as parameters and calculate and return the product.

#include <stdio.h>

int cal(int n1,int n2)

{

int sum;

sum=n1+n2;

return sum;

}

int main()

{

int num1,num2;

printf("Enter two numbers ");

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

printf("The sum is %d \n",cal(num1,num2));

}

Q4: Write a function that accepts 2 whole numbers as parameters and calculate and return the quotient.

#include <stdio.h>

int findquo(int n1,int n2)

{

float quo;

quo=(n1/n2);

return quo;

}

int main()

{

int no1,no2;

printf("Enter any two numbers to get quotient= ");

scanf("%d %d",&no1,&no2);

printf("The Quotient is %d \n",findquo(no1,no2));

}

Q5: Write a function to read 2 numbers and display the sum. Call this function from the main function several times.

#include <stdio.h>

void sum()

{

int n1,n2,sum;

printf("Enter any two numbers= ");

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

sum=n1+n2;

printf("The total sum is %d \n",sum);

}

int main()

{

sum();

sum();

sum();

}

Q6: Write a function which accepts 2 integers as parameters and display the sum, difference and product using a single printf statement.

#include <stdio.h>

int findSD()

{

int n1,n2,sum,diff,pro;

printf("Enter any two numbers= ");

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

sum=n1+n2;

diff=n1-n2;

pro=n1\*n2;

return sum;

}

int main()

{

printf("The total sum is %d \n difference is %d \n product is %d \n",findSD());

}

Q7: Write a function which accepts an integer and a float value as parameters and return the product as a double value. Display the result from the main function.

#include <stdio.h>

double findpro(int n1,float n2)

{

double pro;

pro=n1\*n2;

return pro;

}

int main()

{

int no1,no2;

printf("Enter any two numbers= ");

scanf("%d %d",&no1,&no2);

printf("The total product is %.2f \n",findpro(no1,no2));

}

Q8: Give the function header for each of the following functions.

a. Function hypotenuse that takes two double-precision floating-point arguments, side1 and side2, and returns a double-precision floating-point result.

b. Function smallest that takes three integers, x, y, z, and returns an integer.

c. Function instructions that does not receive any arguments and does not return a value. [Note: Such functions are commonly used to display instructions to a user.]

d. Function intToFloat that takes an integer argument, number, and returns a floatingpoint result.

1. double hypotenuse(double side1, double side2)
2. int smallest(int x, int y, int z)
3. void instructions()
4. float intToFloat(int num)