1. Add Two Integers

IPO:

Input: Two integers

Process: Add the integers

Output: Sum of integers

#include<stdio.h>

void main(){

int a,b,sum;

printf("Enter two integers: ");

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

sum=a+b;

printf("Sum=%d",sum);

}

Output:

Enter two integers: 4 5

Sum=9

---

2. Swap Two Numbers Using Temporary Variable

IPO:

Input: Two integers

Process: Swap using temporary variable

Output: Swapped values

#include<stdio.h>

Void main(){

int a,b,temp;

printf("Enter two numbers: ");

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

temp=a;

a=b;

b=temp;

printf("After swapping: a=%d b=%d",a,b);

}

Output:

Enter two numbers: 3 7

After swapping: a=7 b=3

---

3. Swap Two Numbers Without Temporary Variable

IPO:

Input: Two integers

Process: Swap using arithmetic operations

Output: Swapped values

#include<stdio.h>

Void main(){

int a,b;

printf("Enter two numbers: ");

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

a=a+b;

b=a-b;

a=a-b;

printf("After swapping: a=%d b=%d",a,b);

}

Output:

Enter two numbers: 5 9

After swapping: a=9 b=5

---

4. Find ASCII Value of a Character

IPO:

Input: A character

Process: Find ASCII using %d

Output: ASCII value

#include<stdio.h>

Void main(){

char ch;

printf("Enter a character: ");

scanf(" %c",&ch);

printf("ASCII value of %c=%d",ch,ch);

}

Output:

Enter a character: A

ASCII value of A=65

---

5. Area and Perimeter of Rectangle

IPO:

Input: Length and breadth

Process: Area=lengthbreadth, Perimeter=2(length+breadth)

Output: Area and perimeter

#include<stdio.h>

Void main(){

float l,b,area,peri;

printf("Enter length and breadth: ");

scanf("%f%f",&l,&b);

area=l\*b;

peri=2\*(l+b);

printf("Area=%.2f Perimeter=%.2f",area,peri);

}

Output:

Enter length and breadth: 5 3

Area=15.00 Perimeter=16.00

---

6. Compute Simple Interest

IPO:

Input: Principal, rate, time

Process: SI=(PRT)/100

Output: Simple interest

#include<stdio.h>

Void main(){

float p,r,t,si;

printf("Enter principal, rate, time: ");

scanf("%f%f%f",&p,&r,&t);

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

printf("Simple Interest=%.2f",si);

}

Output:

Enter principal, rate, time: 1000 5 2

Simple Interest=100.00

---

7. Celsius to Fahrenheit

IPO:

Input: Temperature in Celsius

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

Output: Temperature in Fahrenheit

#include<stdio.h>

Void main(){

float c,f;

printf("Enter temperature in Celsius: ");

scanf("%f",&c);

f=(c\*9/5)+32;

printf("Fahrenheit=%.2f",f);

}

Output:

Enter temperature in Celsius: 25

Fahrenheit=77.00

---

8. Find Quotient and Remainder

IPO:

Input: Dividend and divisor

Process: Quotient=dividend/divisor, Remainder=dividend%divisor

Output: Quotient and remainder

#include<stdio.h>

void main(){

int a,b,q,r;

printf("Enter dividend and divisor: ");

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

q=a/b;

r=a%b;

printf("Quotient=%d Remainder=%d",q,r);

}

Output:

Enter dividend and divisor: 17 5

Quotient=3 Remainder=2

---

9. Check Number is Even or Odd

IPO:

Input: An integer

Process: If num%2==0 → even else odd

Output: Even or Odd

#include<stdio.h>

Void main(){

int n;

printf("Enter a number: ");

scanf("%d",&n);

if(n%2==0)

printf("Even");

else

printf("Odd");

}

Output:

Enter a number: 6

Even

---

10. Square and Cube of a Number

IPO:

Input: An integer

Process: Square=nn, Cube=nn\*n

Output: Square and cube

#include<stdio.h>

Void main(){

int n,sq,cu;

printf("Enter a number: ");

scanf("%d",&n);

sq=n\*n;

cu=n\*n\*n;

printf("Square=%d Cube=%d",sq,cu);

}

Output:

Enter a number: 4

Square=16 Cube=64