```
Day: Basic Input/Output and Operators (2-8-2025)
```

1.write a C program to add two integers.

```
Input: get 3 values as input say a,b,c.
```

Process: we add two integers, assigned the value for a,b, the formula c=a+b.

Output: the output store in c.

```
Program:
#include<stdio.h>
void main()
{
    float a,b,c;
    scanf("%f%f",&a,&b);
    c=a+b;
    printf("%f",c);
}
```



2.write a program to swap two numbers using a temporary variable.

Input: to get 3 values as input, say a,b,temp.

Process: to swap two numbers using temporary third variable is introduced to hold the value of one variable swap.

Output: to exchange the two values.

```
Program:
#include <stdio.h>

void main()
{
   int a,b,temp;
   scanf("%d%d",&a,&b);

printf("before swapping:a=%d,b=%d\n",a,b);
   {
     temp=a;
     a=b;
     b=temp;
   }
   printf("after swapping:a=%d,b=%d\n",a,b);
}
```

```
Output

2 3
before swapping:a=2,b=3
after swapping:a=3,b=2
```

3.write a program to swap two numbers without using a temporary variable.

Input: get 3 values as input, say a,b,c.

Process: print before swapping a=a+b;b=a-b;a=a-b; after that the value will swapped.

```
Output: the value will swapped.

Program:

#include<stdio.h>

void main()

{
    int a,b,c;
    float d;
    scanf("%d%d%d",&a,&b,&c);
    d=(a*b*c)/100;
    printf("%f",d);
```

}

```
Output

7 5
before swapping:a=7,b=5
after swapping:a=5,b=7
```

4. Write a program to find the ASCII value of a character.

Input: to get ASCII program by using char ,printf and stores in character varaiable.

Process:to print char variable using modulor d,c convert char into ASCII value.

```
Output:the value using printf(n).

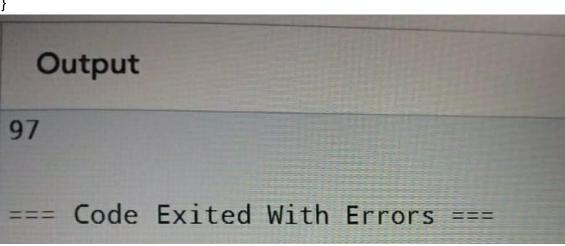
Program:

#include <stdio.h>

void main()

{
  int n,a;
```

```
char c='a';
n=c;
printf("%d",n);
```



5. Write a program to calculate the area and perimeter of a rectangle.

```
Input: get 4 values as input say area, perimeter, I, w.
```

Process:to find the area and perimeter of a rectangle by using area=l*w;perimeter2*(l+w).

Output: the output in area and perimeter.

```
Program:
#include<stdio.h>
void main()
{
    float l,w,area,perimeter;
    scanf("%f%f",&l,&w);
    {
        area=l*w;
        perimeter=2*(l+w);
    }
    printf("Area = %.2f\n", area);
```

```
printf("Perimeter= %.2f\n", perimeter);
```

}

}

```
Output

5.4
6
Area = 32.40
Perimeter= 22.80
```

6. Write a program to compute the simple interest

```
Input: to get 3 values as input say a,b,c.

Process: to fint the simple interest by d=(a*b*c)/100.

Output:the out put is store in d.

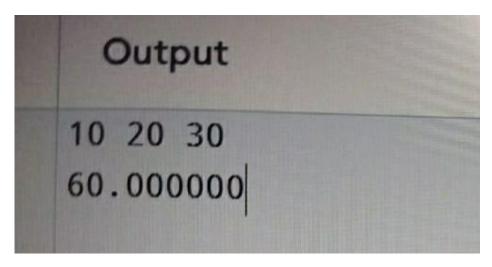
Program:

#include<stdio.h>

void main()

{

   int a,b,c;
   float d;
   scanf("%d%d%d",&a,&b,&c);
   d=(a*b*c)/100;
   printf("%f",d);
```



7.Write a program to convert temperature from Celsius to Fahrenheit

Input: get 2 values as input say a,b.

Process: to convert temperature from celcius to Fahrenheit by b=(a*9/5)+32.

Output: the output will be store in b.

Program:

```
#include<stdio.h>
void main()
{
    float a,b;
    scanf("%f",&a);
    b=(a*9/5)+32;
    printf("%f",b);
}
```

Output

2.4

36.320000

8.write a program to find the quotient and remainder of two integers.

Input:get 4 values as input, say divide, divisor, remain, q.

Process:q equal to divide/divisor;remain equal to divide modulor divisor.

Output: the out will be store in q and remain.

```
Program:
#include<stdio.h>
void main()
{
  int divide,divisor,remain,q;
  scanf("%d%d",&divide,&divisor);
  {
    q=divide/divisor;
    remain=divide%divisor;
  }
    printf("q=%d\n",q);
  printf("remain=%d\n",remain);
}
```

Output 20 3 q=6 remain=2

9.write a program to check whether a number is even or odd.

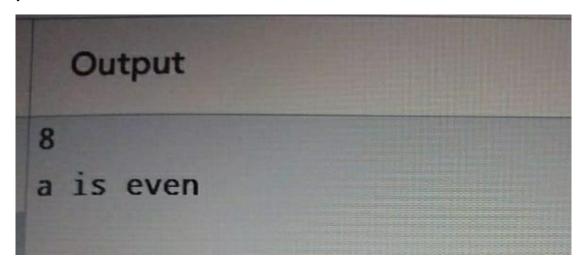
```
Input: get 1 value as input, say a.
```

Process: assigned the value for a and if(a%==0) print even, else, print odd.

Output: a is even or odd.

```
Program:
#include <stdio.h>
void main()
{
  int a;
  scanf("%d",&a);
  if(a%2==0)
  {
    printf("a is even");
  }
  else
```

```
{
    printf("a is odd");
}
```



10. Write a program to calculate the square and cube of a number.

Input: get 3 values as input, say a, square, cube.

Process: assigned the value value for a, square equal to a *a, cube equal to a*a*a.

Output: the output will be store in square, cube.

```
Program:
#include<stdio.h>
void main()
{
    float a,square,cube;
    scanf("%f",&a);
    square=a*a;
    cube=a*a*a;
    printf("square=%f\n",square);
    printf("cube=%f\n",cube);
```

}

Output

4.5

square=20.250000 cube=91.125000