1. Write a program to display the size of the different data type like char, int & float.

Answer -   
  
**Input -**  
#include <stdio.h>

void main()

{

    int a;

    float b;

    char ch;

    printf("SIZE OF INTEGER: %d",  sizeof(a));

    printf("\nSIZE OF FLOAT: %d", sizeof(b));

    printf("\nSIZE OF CHAR: %d", sizeof(ch));

}  
  
**Output -**   
  
SIZE OF INTEGER: 4

SIZE OF FLOAT: 4

SIZE OF CHAR: 1  
  
  
  
2. Write a program to accept marks of three subject & find there average.

Answer -   
  
**Input ­-**

#include<stdio.h>

//find the average of three marks//

int main()

{

int x, y, z;

float avg;

printf("Enter Three Numbers : \n");

scanf("%d %d %d",&x, &y, &z);

avg=(x+y+z)/3.0;

printf("Average of Three Numbers is : %f",avg);

}  
  
**OUTPUT -**   
Enter Three Numbers :

1

2

3

Average of Three Numebers is : 2.000000

3. Write a program to calculate the area of the circle, taking radius as input from the user.

Answer -   
  
**INPUT -**

#include<stdio.h>

int main() {

//find the area of circle//

int x;

printf("Type the radius of the Circle- ");

scanf("%d", &x);

float area;

area =3.14 \* x;

printf("The area of the circle is %f", area);

return 0;

}  
  
**OUTPUT-**   
Type the radius of the Circle- 23

The area of the circle is 72.220001

4. Write a program to find the volume of the sphere, taking radius as input from keyboard.

Answer -

**INPUT -**

#include<stdio.h>

int main() {

//find the volume of sphere//

int x;

printf("Type the radius of the sphere- ");

scanf("%d", &x);

float volume;

volume = 4.1866 \* x \* x \* x;

printf("The area of the sphere is %f", volume);

return 0;

}

**OUTPUT -**

Type the radius of the sphere- 123

The area of the sphere is 7790706.000000

5. Write a program to calculate the simple interest taking P,R,T as input from keyboard.

Answer -

**INPUT -**

#include<stdio.h>

int main() {

//find the simple interest//

int x;

printf("Type the principle- ");

scanf("%d", &x);

int y;

printf("Type the rate of interest- ");

scanf("%d", &y);

int z;

printf("Type the time- ");

scanf("%d", &z);

float value;

value = x\*y\*z\*0.01;

printf("The simple interest is %f", value);

return 0;

}

**OUTPUT-**

Type the principle- 23

Type the rate of interest- 34

Type the time- 12

The simple interest is 93.839996

6. Write a program to covert kilometer to meter, taking kilometer as input.

Answer –

**INPUT-**

#include<stdio.h>

int main() {

//convert kilometer to meter//

int x;

printf("Type the value in km- ");

scanf("%d", &x);

float m;

m = x \* 0.01;

printf("The value in metre is %f", m);

return 0;

}

**OUTPUT -**

Type the value in km- 235

The value in metre is 2.350000

7. Write a program to covert meter to kilometer, taking meter as input.

Answer -   
**INPUT -**

#include<stdio.h>

//metre to km

int main()

{

int kilometre, meter, rem;

printf("Enter the meters\n");

scanf("%d", &meter);

kilometre = (meter / 1000);

rem = meter%1000;

printf("The length in Kilometres is %d Kilometres and %d meters", kilometre, rem);

return 0;

}

**OUTPUT -**

Enter the meters

2314

The length in Kilometres is 2 Kilometres and 314 meters

8. Write a program to swap two intergers using third variable.

Answer -

**INPUT -**

//Swap 2 integers using third variable

#include<stdio.h>

void main(){

int a,b,c;

printf("Enter the first number: ");

scanf("%d",&a);

printf("Enter the second number: ");

scanf("%d",&b);

c=a;

a=b;

b=c;

printf("After Swapping first number: ");

printf("%d",a);

printf("\nAfter Swapping second number: ");

printf("%d",b);

}

**OUTPUT -**

Enter the first number: 2

Enter the second number: 4

After Swapping first number: 4

After Swapping second number: 2

9. Write a program to swap two intergers without using third variable.

Answer -   
  
**INPUT -**

//Swapping two numbers without using third variable

#include <stdio.h>

void main() {

int a, b;

printf("Enter a: ");

scanf("%d", &a);

printf("Enter b: ");

scanf("%d", &b);

a = a - b;

b = a + b;

a = b - a;

printf("After swapping, a = %d\n", a);

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

}

**OUTPUT -**

Enter a: 2

Enter b: 3

After swapping, a = 3

After swapping,b=2

10. Write a program to convert C to F.

Answer -   
  
**INPUT -**

//Convert Celsius to Farheneit

#include<stdio.h>

void main(){

float c,result;

printf("Enter temperature in celsius: ");

scanf("%f",&c);

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

printf("The temperature in farheneit is : ");

printf("%f",result);

}

**OUTPUT -**

Enter temperature in celsius: 45

The temperature in farheneit is : 113.000000

11. Write a program to perform all airthmatic operations over two integers.

Answer -   
  
**INPUT -**

#include<stdio.h>

int main() {

//find the all the arithemetic operations using only 2 integer//

int x,y;

printf("Type the first integer - ");

scanf("%d", &x);

printf("Type the second integer - ");

scanf("%d", &y);

{float a;

a = x + y ;

printf("Addition - %f\n", a);}

{float b;

b = x - y ;

printf("Substraction - %f\n", b);}

{float c;

c = x \* y ;

printf("Multiplication - %f\n", c);}

{float d;

d = x/y ;

printf("Division - %f\n", d);}

{float e;

e = x%y ;

printf("Remainder - %f\n", e);}

return 0;

}

**OUTPUT -**

Type the first integer - 4

Type the second integer - 5

Addition - 9.000000

Substraction - -1.000000

Multiplication - 20.000000

Division - 0.000000

Remainder - 4.000000