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.

```
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.

```
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;
```

OUTPUT -

}

Answer -

Enter temperature in celsius: 45

printf("%f",result);

The temperature in farheneit is: 113.000000

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

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
```