

Date _____
Page _____

-: C language LIVE community classes :-
-: Assignment - 5 :-

1.) write a program to calculate the sum of two numbers.

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int a, b, c;
    printf("Enter two numbers");
    scanf("%d %d", &a, &b);
    c = a + b;
    printf("the sum of two numbers %d and %d is %d", a, b, c);
    getch();
}
```

2.) Write a program to calculate the area of circle.

```
#include <stdio.h>
#include <conio.h>
int main()
{
    float a, r;
    printf("Enter radius");
    scanf("%f", &r);
    // area =  $\pi r^2$  and value of  $\pi$  is 3.14
    a = 3.14 * r * r;
    printf("the area of circle is %f", a);
}
```

```
    getch();  
}
```

(3.) Write a program to calculate the volume of a cuboid.

```
#include <stdio.h>  
#include <conio.h>  
int main()  
{  
    float v, l, b, h;  
    printf("Enter length, breadth and height");  
    scanf("%f %f %f", &l, &b, &h);  
    v = l * b * h;  
    printf("The volume of cuboid is %f", v);  
    getch();  
}
```

(4.) Write a program to calculate the simple interest.

```
#include <stdio.h>  
#include <conio.h>  
int main()  
{  
    float S, i, P, R, T;  
    printf("Enter principle, Rate and Time");  
    scanf("%f %f %f", &P, &R, &T);  
    S-i = P * R * T / 100;
```


printf("simple interest is %f", s-i);
getch();
}

(5) write a program to calculate the area of a rectangle.

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

```
#include <conio.h>
```

```
int main()
```

```
{
```

```
float a, l, b;
```

```
printf("Enter length and breadth");
```

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

```
a = l l * b;
```

```
printf("the area of a rectangle is %f", a);
```

```
getch();
```

```
}
```

(6) write a program to calculate the average of three numbers.

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

```
#include <conio.h>
```

```
int main()
```

```
{
```

```
float a, b, c, average;
```

```
printf("Enter three numbers");
```

Date _____
Page _____

```
scanf ("%f%f%f", &a, &b, &c);
average = (a+b+c)/3;
printf ("the average of three numbers is %f", average);
getch();
}
```

(7) write a program to calculate the square of a given number.

```
#include <stdio.h>
#include <conio.h>
int main()
{
    float num1, square;
    printf ("Enter a number");
    scanf ("%f", &num1);
    square = num1 * num1;
    printf ("the square of a given number is %f", square);
    getch();
}
```

(8) write a program which takes a character as input and print its ASCII code.

```
#include <stdio.h>
#include <conio.h>
int main()
{
```



```

char C;
printf("Enter a character");
scanf("%c", &C);
printf("Its ASCII code is %d", C);
getch();
}

```

- 9) write a program to calculate the profit percentage upon selling a product. cost price and selling price are given by the user.

```

#include <stdio.h>
#include <conio.h>
int main()
{
    float profit, PP, CP, SP;
    printf("Enter cost price and selling price");
    scanf("%f %f", &CP, &SP);
    profit = SP - CP;
    PP = profit / CP * 100;
    printf("The profit is %.2f percent", PP);
    getch();
}

```

- 10) write a program to calculate the area of a triangle where base and height of the triangle are given

#include <stdio.h>

#include <conio.h>

int main()

{

float area, b, h;

printf("Enter base and height");

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

area = b * h / 2

printf("The area of a triangle is %f," area);

getch();

}