



Lab Assignment - 1

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1. Write a C program that will print your name.

```
#include<stdio.h>

int main()

{

printf("Name: Prohor Paul");

return 0;

}
```

2. Write a C program that will print your name, your father and mother name in three separate lines.

```
#include<stdio.h>

int main()

{

printf("Name: Prohor Paul\n");

printf("Father's name: Bino Paul\n");

printf("Mother's name: Kolyani Paul\n");

return 0;

}
```

3. Write a C program that will print the sum of two variables a and b; where a = 10 and b = 20.

```
#include<stdio.h>

int main()
```

```
{  
int a=10,b=20;  
printf("sum=%d",a+b);  
return 0;  
}
```

4. Write a C program to calculate sum of two integer numbers (given by the user) and print it.

```
#include<stdio.h>  
  
int main()  
{  
int a,b;  
printf("Enter two numbers:");  
scanf("%d %d",&a,&b);  
printf("sum=%d",a+b);  
return 0;  
}
```

5. Write a C program that will take three numbers from user and find their average.

```
#include<stdio.h>  
  
int main()  
{  
float a,b,c,sum,avg;  
printf("Enter three numbers:");
```

```
scanf("%f %f %f",&a,&b,&c);

sum=a+b+c;

avg=sum/3;

printf("average=%.2f",avg);

return 0;

}
```

6. Write a C program that will take three integer as input from user and print their average.

(You should use type-cast to get proper result)

```
#include<stdio.h>

int main()

{

int a,b,c,sum;

float avg;

printf("Enter three numbers:");

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

sum=a+b+c;

avg=(float)sum/3;

printf("average=%.2f",avg);

return 0;

}
```

7. Write a C Program to convert Km value into meter value.

```
#include<stdio.h>

int main()

{

float a;

printf("Enter km value:");

scanf("%f",&a);

a=a*1000;

printf("Meter value=%.2f",a);


return 0;

}
```

8. Write a C Program to convert Celsius value into Fahrenheit value.

```
#include<stdio.h>

int main()

{

float c,f;

printf("Enter celsius value:");

scanf("%f",&c);

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

printf("fahrenheit value=%.2f",f);

return 0;

}
```

9. Write a C Program to interchange values of two numbers using third variable.

```
#include <stdio.h>

int main()
{
    int var1, var2, temp;

    printf("Enter two numbers:");

    scanf("%d %d",&var1,&var2);

    temp=var1;

    var1=var2;

    var2=temp;

    printf("After changing value:%d %d",var1,var2);

    return 0;
}
```

10. Write a C Program to interchange values of two numbers without using third variable.

```
#include <stdio.h>

int main()
{
    int var1, var2;

    printf("Enter two numbers:");

    scanf("%d %d",&var1,&var2);
```

```
var1=var1+var2;

var2=var1-var2;

var1=var1-var2;

printf("After changing value:%d %d",var1,var2);
```

```
return 0;
```

```
}
```

11. Write a C program to input two numbers and print their quotient and remainder.

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

```
int main()
```

```
{
```

```
int a,b;
```

```
printf("Enter two numbers:");
```

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

```
printf("quotient=%d\n",a/b);
```

```
printf("remainder=%d\n",a%b);
```

```
return 0;
```

```
}
```

12. Write a C Program to accept any character from user and display its ASCII number on screen.

```
#include <stdio.h>

int main()
{
    char c;

    printf("Enter any character");

    scanf("%c",&c);

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


    return 0;

}
```

13. Write a C Program to input any ASCII number and display appropriate character on screen.

```
#include <stdio.h>

int main()
{
    int a;

    printf("Enter ASCII value:");

    scanf("%d",&a);

    printf("ASCII character of %d=%c",a,a);


    return 0;

}
```


14. Write a C Program to input any Capital letter and display it with small letter.

```
#include <stdio.h>

#include <ctype.h>

int main()

{

char c,result;

printf("Enter any capital character:");

scanf("%c",&c);

result= tolower(c);

printf("result=%c",result);

return 0;

}
```

15. Write a C Program to input any Small letter and display it with capital letter.

```
#include <stdio.h>

#include <ctype.h>

int main()

{

char c,result;

printf("Enter any small character:");
```

```
scanf("%c",&c);  
result= toupper(c);  
printf("result=%c",result);  
return 0;  
}
```

16. Write a C Program to input any Capital letter and display it with small letter. (without using tolower() function)

```
#include<stdio.h>  
int main()  
{  
char a;  
printf("enter uppercase character:");  
scanf("%c",&a);  
a=a+32;  
printf("lowercase character is:%c",a);  
  
return 0;  
}
```

17. Write a C Program to input any Small letter and display it with capital letter. (without using toupper() function)

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

```
int main()
{
char a;

printf("enter lowercase character:");

scanf("%c",&a);

a=a-32;

printf("uppercase character is:%c",a);


return 0;
}
```

18. Write a C program to input the number of days from the user and convert it into years, months and days.

```
#include<stdio.h>

int main()
{
int a,year,month,day;

printf("Enter days:");

scanf("%d",&a);

year=a/365;

month=(a%365)/12;

day=(a%365)%12;
```

```
printf("year=%d,month=%d,day=%d",year,month,day);
```

```
return 0;
```

```
}
```

19. Write a C Program to input three digits number from user and calculate sum of first and last numbers. (Hint : I/p : 358 O/p :11)

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

```
int main()
```

```
{
```

```
int num, sum=0, firstDigit, lastDigit;
```

```
printf("Enter any number to find sum of first and last digit: ");
```

```
scanf("%d", &num);
```

```
lastDigit = num % 10;
```

```
firstDigit = num;
```

```
while(num >= 10)
```

```
{
```

```
num = num / 10;
```

```
}
```

```
firstDigit = num;
```

```
sum = firstDigit + lastDigit;
```

```
printf("Sum of first and last digit = %d", sum);
```

```
return 0;
```

```
}
```

20. Write a C Program to input three digits number from user and display square of first and last numbers.(Hint : I/p : 358 O/p : Square of 3 is 9 and Square of 8 is 64)

```
#include <stdio.h>

int main()
{
    int num, sum=0, firstDigit, lastDigit;

    printf("Enter any number to find sum of first and last digit: ");
    scanf("%d", &num);

    lastDigit = num % 10;
    firstDigit = num;

    while(num >= 10)
    {
        num = num / 10;
    }

    firstDigit = num;

    firstDigit=pow(firstDigit,2);
    lastDigit=pow(lastDigit,2);

    printf("square of first digit=%d\n",firstDigit);
    printf("square of last digit=%d\n", lastDigit);

    return 0;
}
```

21. Write a C Program to input two digits number from user and display with reverse number on screen

(Hint : I/P : 32 O/P : 23)

```

#include<stdio.h>

int main()
{
int a,b,var1,var2;

printf("Enter number");

scanf("%d",&a);

b=a%10;

a=a/10;

var1=b*10;

var2=a;

printf("after inversing value=%d",var1+var2);


return 0;

}

```

22. Write a C program to find out the quotient and remainder of two numbers. (Without using modulus

(%) operator

```

#include <stdio.h>

int main()
{
int divisor,divident,quotient=0,remainder;

printf("Enter divisor:");

```

```
scanf("%d",&divisor);  
printf("Enter dividend:");  
scanf("%d",&divident);  
while (divisor>=divident){  
    divisor=divisor-divident;  
    quotient=quotient+1;  
}  
remainder=divisor;  
printf("quotient=%d\n",quotient);  
printf("%remainder=%d\n",remainder);  
return 0;
```