Assignment -02

A job Ready Boot camp in C++, DSA & IOT.

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1. Write a program to print unit digit of a given number.

```
#include<stdio.h>
int main()
{
 int n,a;
printf("Enter The number:=");
scanf("%d",&n);
a=n%10;
printf("Unit digit of:%d",a);
return 0;}
```

2.Write a program to print a given number without its last digit.

```
#include<stdio.h>
int main()
{
 int x;
printf("Enter a number");
scanf("%d",&x);
printf("Number without last digit is %d",x/10);
return 0;
}
```

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3.Write a program to swap values of two int variables

```
#include<stdio.h>
int main()
{
   int a,b,c;
   printf("Enter two number");
   scanf("%d %d",&a,&b);
   c=a;
   a=b;
   b=c;

   printf("Swap number a=%d is b=%d",a,b);
}
```

4. Write a program to swap values of two int variables without using a third variable.

```
#include<stdio.h>
int main()
{
int a,b;
printf("Enter two value");
scanf("%d%d",&a,&b);
a=a+b;
b=a-b;
a=a-b;

printf("swap the value without using third variable a=%d b=%d",a,b);
}
```

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5. Write a program to input a three-digit number and display the sum of the digits.

```
#include<stdio.h>

int main()

{

int x;

int sum=0,rem=0;

printf("Enter any three digit Number:");

scanf("%d",&x);

rem=x%10;

x=x/10;

sum=sum+rem;

rem=x%10;

x=x/10;

sum=sum+rem;

rem=x%10;

x=x/10;

sum=sum+rem;

printf("Sum is %d",sum);

return 0;


}
```

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6. Write a program which takes a character as an input and displays its ASCII code.

```
#include<stdio.h>

int main()

{

char c='a';

printf("Ascii code of %d",c);

return 0;

}
```

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7. Write a program to find the position of first 1 in LSB.

```
int main()
{
int x,count=0;
int result=0;
printf("Enter The Number: ");
scanf("%d",&x);
while(x!=0)
{
result=x&1;


count++;
if(result==1)

{


printf("Position of first LSB is %d",count);
break;
}
x=x>>1;
}
return 0;
}
```

5

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8. Write a program to check whether the given number is even or odd using a bitwise operator.

```
#include<stdio.h>

int main()

{

int a;


printf("Enter a number: ");



scanf(" %d",&a);

int result= a&1;


if(result == 1)

{

printf("it is odd number ");}

else

{


printf("it is even number ");

}

printf("\n");

return 0;}
```

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9. Write a program to print size of an int, a float, a char and a double type variable.

```
int main()
{
int a=123;

char b='v';
float m=1.2;
double n=2.356;
int size=sizeof(n);

printf("size of a is %d",size);
}
```

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10. Write a program to make the last digit of a number stored in a variable as zero. (Example - if x=2345 then make it x=2340).

```
#include<stdio.h>

int main()

{

int a;

printf("Enter a number");

scanf("%d",&a);

a=a/10;

a=a*10;

printf("Last digit of a Number is%d",a);

}
```

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12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.

```
#include<stdio.h>

int main()

{

float a,b;

printf("Enter value in Indian rupees:");

scanf("%f",&a);

b=a*1/76.23;

printf(" USD is =$%f",b);

return 0;}
```

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13. Write a program to take a three-digit number from the user and rotate its digits by one position towards the right.

```
#include<stdio.h>

int main()

{

int n,num1,num2,num3,rotate;

printf("Enter any three digit number:");

scanf("%d",&n);

num1=n / 100;

num2=(n % 100)/ 10;

num3=(n%10);

rotate=num3*100+num2*10+num1;

printf("%d",rotate);

return 0;



}
```