Assignment – 2 A Job Ready Bootcamp in C++, DSA and IOT MySirG

Operators in C Language

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

```
#include<stdio.h>
int main()
{
   int a=123,x;
   x=a%10;
   printf("Unit digit = %d",x);
   return 0;
}
```

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

```
#include<stdio.h>
 int main()
{
   int a=123,x;
   x=a/10;
   printf("Without last digit = %d",x);
   return 0;
}
```

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

```
#include<stdio.h>
int main()
{
   int a=5,b=10,c,d;
   c=a,d=b;
   b=c,a=d;
   printf("a = %d",a);
   printf("\nb = %d",b);
   return 0;
}
```

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 digit number");
   scanf("%d%d",&a,&b);
   a=a+b;
   b=a-b;
   a=a-b;
   printf("After swap values are %d %d ",a,b);
   return 0;
}
```

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

```
#include<stdio.h>
int main()
{
   int a,rem=0,sum=0;
   printf("Enter three digit number");
  scanf("%d",&a);
  rem=a%10;
   a=a/10;
   sum=sum+rem;
   rem=a%10;
   a=a/10;
   sum=sum+rem;
   rem=a%10;
   a=a/10;
   sum=sum+rem;
   printf("Enter digit sum is %d ",sum);
   return 0;
}
```

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

```
#include<stdio.h>

int main()

{

 char x;

printf("\nEnter a character ");

scanf("%c",&x);

 printf("\n ASCII Code is %d",x);

}
```

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

```
#include<stdio.h>

int main()
{
   int x, position=0;
   printf("Enter a number");
   scanf("%d",&x);

   int result =0;

   while(x!=0)
   {
      result = x&1;
```

```
    position++;
    if(result==1)
      {
        printf("%d",position);
        break;
      }

      x=x>>1;
    }


    return 0;
}
```

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

```
#include<stdio.h>

int main()
{
    int x;

    printf("Enter a number");
    scanf("%d",&x);

    int result=x&1;

    if(result==1)
       printf("odd");
    else
       printf("even");

    return 0;
}
```

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

int	**float**	**char**	**double**

int main()
{
int x;
x=sizeof(int);
 	
printf("%d",x);
}
	int main()
	{
	int x;
	x=sizeof(float);
	
	printf("%d",x);
	}
		int main()
		{
		int x;
		x=sizeof(char);
		
		printf("%d",x);
		}
			int main()
			{
			int x;
			x=sizeof(double);
			
			printf("%d",x);
			}

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 x;
   printf("Enter a number");
   scanf("%d",&x);

   x=x/10;
   x=x*10;

   printf("%d",x);

}
```

11. Write a program to input a number from the user and also input a digit. Append a digit in the number and print the resulting number. (Example - number=234 and digit=9 then the resulting number is 2349)

```
#include<stdio.h>

int main()

{

   int x,y;

   printf("Enter a number and a digit");

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

   printf("%d%d",x,y);

}
```

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()
{
   int x;
   printf("Enter the amount in INR");
   scanf("%d",&x);

   //1 USD = INR 76.23
   x=x*76.23;
   printf("%d",x);

}
```

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 x;
   printf("Enter a three number");
   scanf("%d",&x);

     x=x%10*100 + x/10 ;

   printf("New Number = %d",x);

}
```