

Assignment – 2

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

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int x;
    printf("Enter a Number");
    scanf("%d",&x);
    printf("Unit digit of %d is %d",x,x%10);
    return 0;
}
```

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

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

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

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int a,b,c;
    printf("Enter Two Values");
    scanf("%d %d",&a,&b);
    c=b;
    b=a;
    a=c;
    printf("a=%d and b=%d",a,b);
    return 0;
}
```

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

```
#include<stdio.h>

#include<conio.h>

int main()

{

int a=10,b=20;

a=a+b;

b=a-b;

a=a-b;

printf("a=%d and b=%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>

#include<conio.h>

int main()

{

int x,sum=0,rem=0;

printf("Enter a 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("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 ch;  
    printf("Enter a character: ");  
    scanf("%c",&ch);  
    printf("\n%d",ch);  
    return 0;  
}
```

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

```
#include<stdio.h>  
int main()  
{  
    int x,i,a;  
    printf("Enter a number: ");  
    scanf("%d",&x);  
    for(i=1;i<=32;i++)  
    {  
        a=x&1;  
        if(a!=0)  
            break;  
        if(x%2==1)  
            break;  
        x=x>>1;  
    }  
    printf("%d",i);  
    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);
    if((x&1)==0)
        printf("Even Number");
    else
        printf("Odd Number");
    return 0;

}

```

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

```

#include<stdio.h>
#include<conio.h>
int main()
{
    int a,x,y,z,k;
    char c;
    float f;
    double d1;
    x=sizeof(a);
    y=sizeof(c);
    z=sizeof(f);
    k=sizeof(d1);
}

```

```
printf("Size of int, char, float and double var is %d, %d, %d and %d",x,y,z,k);  
return 0;  
}
```

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("\n%d",x);  
  
    return 0;  
}
```

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

```
float USD;  
  
printf("Enter amount in INR: ");  
  
scanf("%d",&x);  
  
USD=x/76.23;  
  
printf("Amount in USD of %d is %f",x,USD);  
  
return 0;  
  
}
```

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,r;  
  
    printf("Enter a three digit number: ");  
  
    scanf("%d",&x);  
  
    r=x%10;  
  
    x=x/10;  
  
    r=r*100;  
  
    r=r+x;  
  
    printf("\n%d",r);  
  
    return 0;  
  
}
```