**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;

}

1. 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;

}

1. 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;

}

1. 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;

}

1. 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;

}

1. **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;i++)

{

a=x&1;

if(a!=0)

break;

if(x%2==1)

break;

x=x>>1;

}

printf("%d",i);

return 0;

}

1. **/\*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;

}

**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,n;

printf("Enter a number: ");

scanf("%d",&x);

printf("Enter a number which you want to append: ");

scanf("%d",&n);

x=x\*10;

x=x+n;

printf("%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;

}