Assignment – 2

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

ans :-

```
#include<stdio.h>
int main()
{
    int num,uin;
    printf("Enter a number:");
    scanf("%d",&num);
    uin=num%10;
    printf("the unit number is %d",uin);
    return 0;
}
```

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

```
#include<stdio.h>
int main()
{
int num,g;
printf("Enter a number :");
scanf("%d",&num);
g=num/10;
printf("the output of given number is:%d",g);
return 0;
}
```

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

```
#include<stdio.h>
int main(){
    int fir,sec,thir;
    printf("Enter the first number:\n");
    scanf("%d",&fir);
    printf("Enter the second number :\n");
    scanf("%d",&sec);
    printf("Number before swaping:1st num:-%d 2nd num:-%d\n",fir,sec);
    thir=fir;
    fir=sec;
    sec=thir;
    printf("Number after swaping:1st num:-%d 2nd num:-%d\n",fir,sec);
    return 0;
}
```

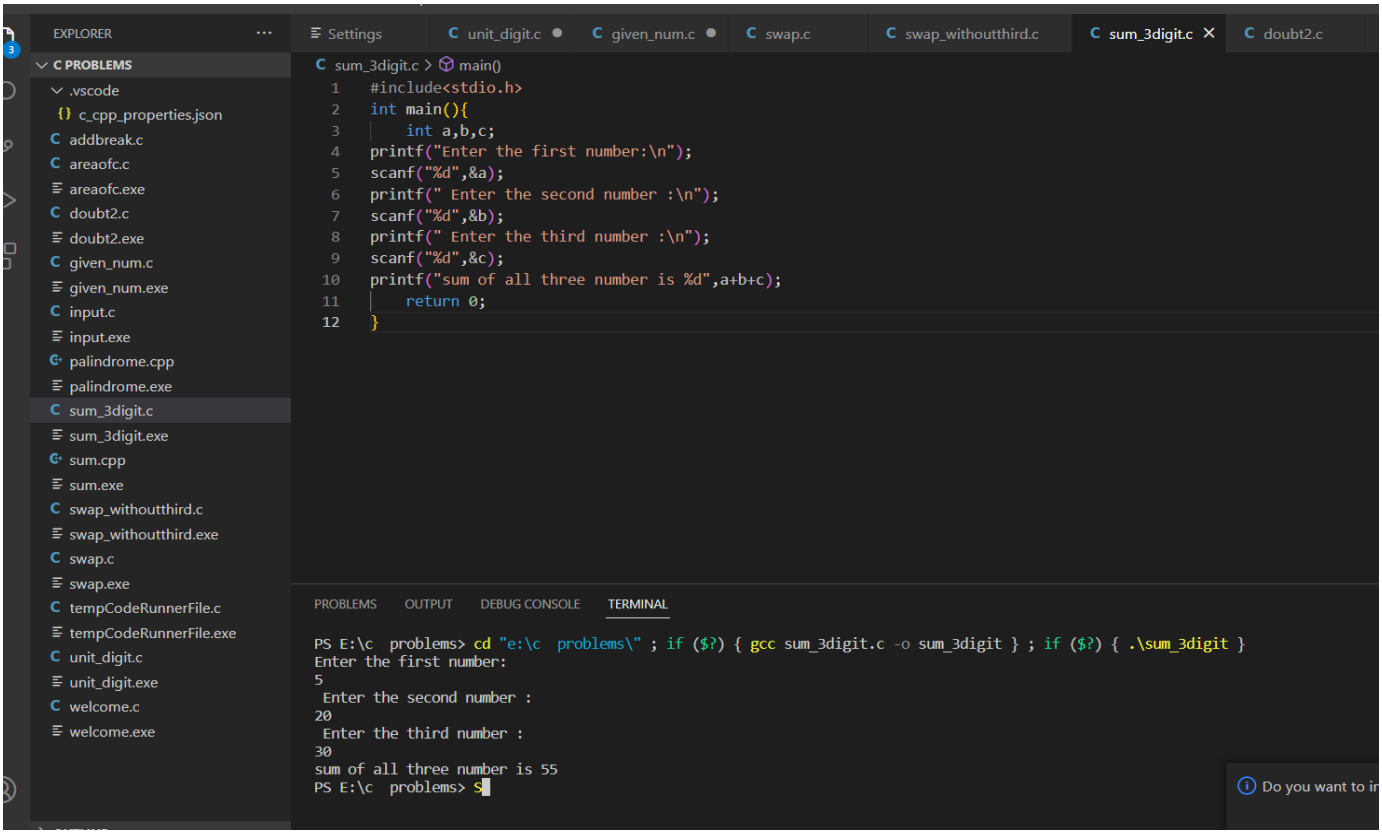
4. Write a program to swap values of two int variables without using a third variable?

```
#include<stdio.h>
int main(){
    int fir,sec;
    printf("Enter the first number:\n");
    scanf("%d",&fir);
    printf("Enter the second number :\n");
    scanf("%d",&sec);
    printf("Number before swaping:1st num:-%d 2nd num:-%d\n",fir,sec);
fir=(fir+sec);
sec=(fir-sec);
```

```
fir=(fir-sec);
printf("Number after swaping:1st num:-%d 2nd num:-%d\n",fir,sec);
    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,b,c;
printf("Enter the first number:\n");
scanf("%d",&a);
printf(" Enter the second number :\n");
scanf("%d",&b);
printf(" Enter the third number :\n");
scanf("%d",&c);
printf("sum of all three number is %d",a+b+c);
    return 0;
}
```



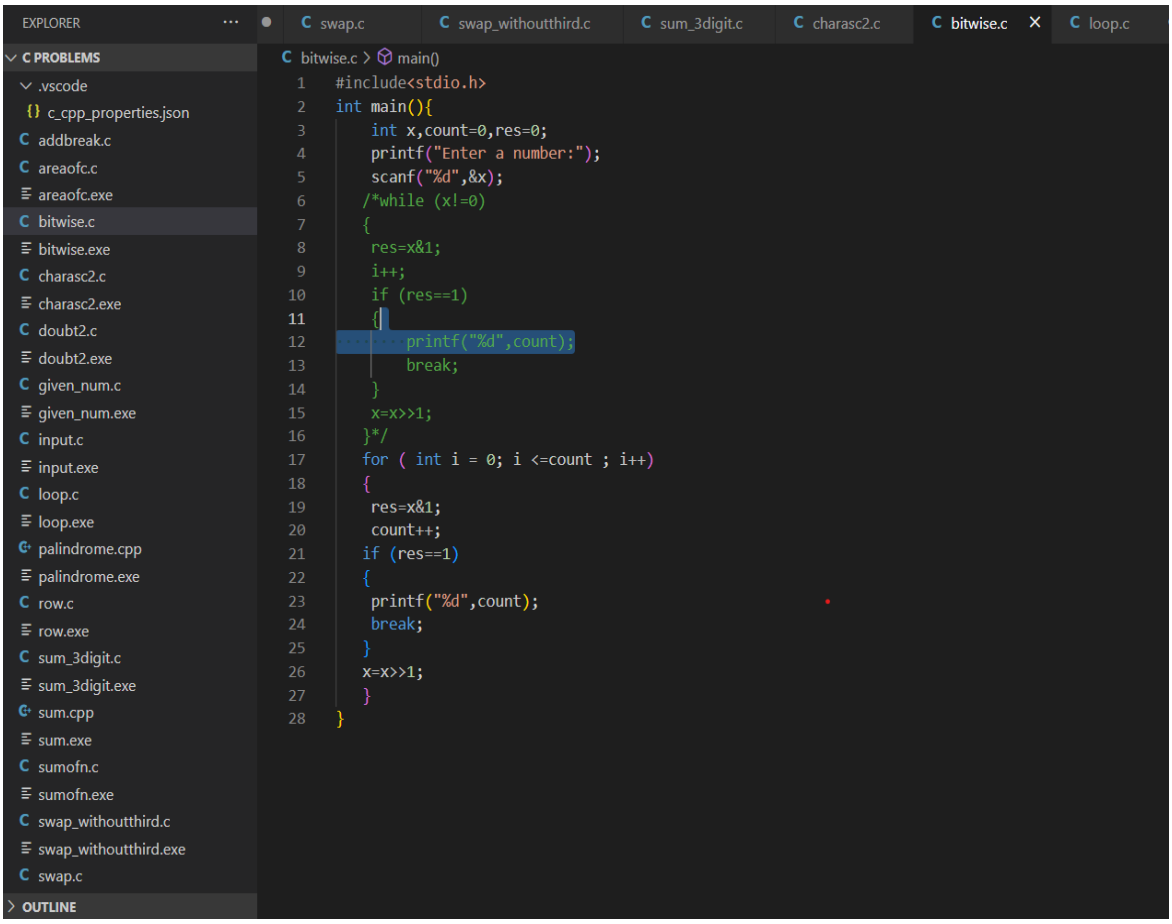
6. Write a program which takes a character as an input and displays its ASCII code?

```
#include<stdio.h>

int main(){

    char k;

    int j;

    printf("Enter a character:");

    scanf("%c",&k);

    j=k;

    printf("%d",j);

}
```

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

Ans:

```
#include<stdio.h>
int main(){
    int x,count=0,res=0;
    printf("Enter a number:");
    scanf("%d",&x);
   /*while (x!=0)
   {
    res=x&1;
    i++;
    if (res==1)
    {
        printf("%d",count);
        break;
    }
    x=x>>1;
   }*/
   for ( int i = 0; i <=count ; i++)
   {
    res=x&1;
    count++;
   if (res==1)
   {
    printf("%d",count);
    break;
   }
   x=x>>1;
   }
}
```



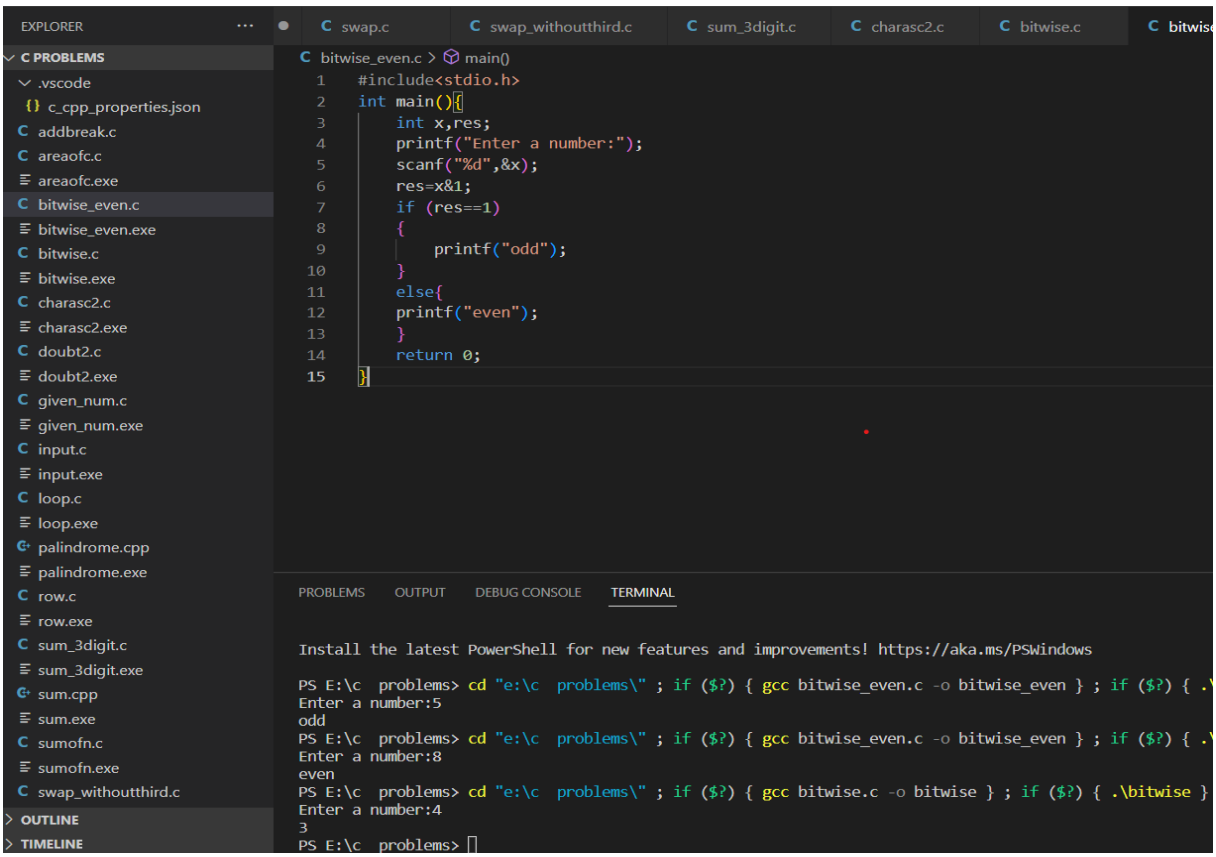
8. Write a program to check whether the given number is even or odd using a bitwise

Operator?

Ans:

```
#include<stdio.h>
int main(){
    int x,res;
    printf("Enter a number:");
    scanf("%d",&x);
    res=x&1;
    if (res==1)
    {
```

```
        printf("odd");
    }
    else{
    printf("even");
    }
    return 0;
}
```

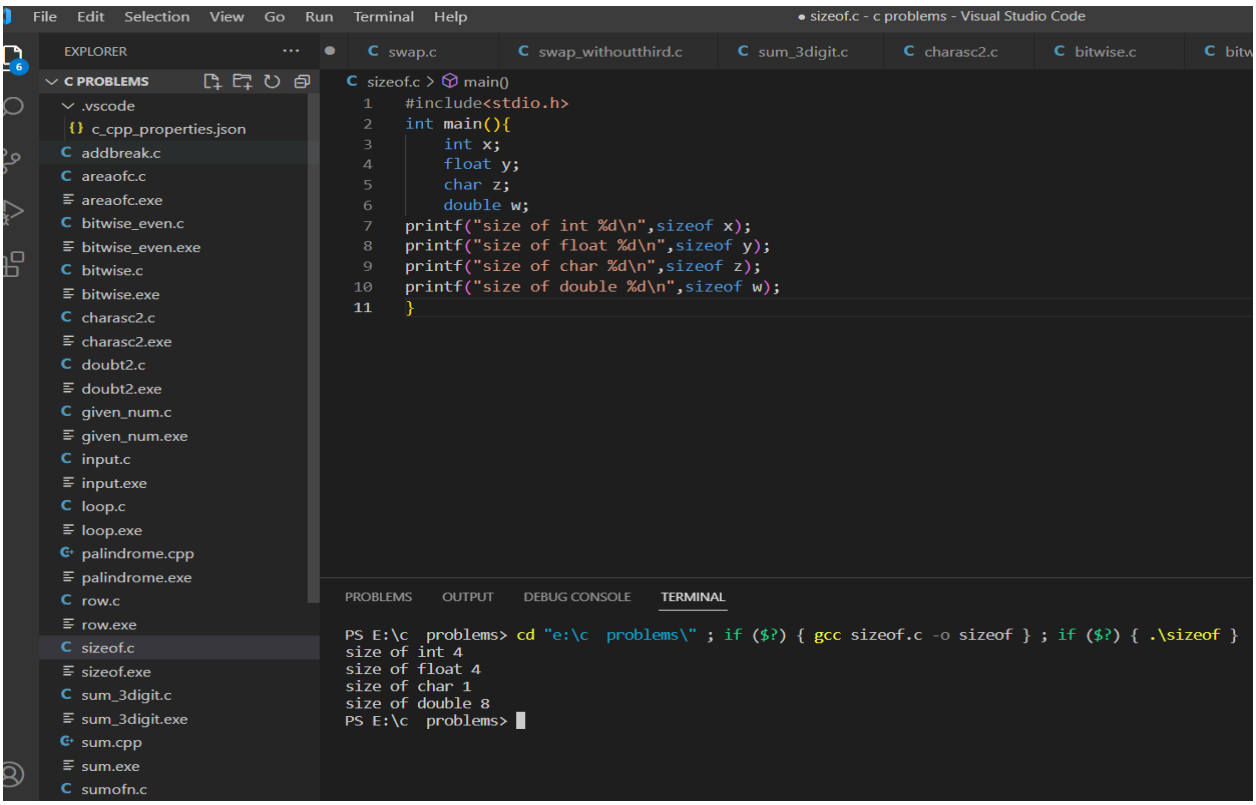


9. Write a program to print size of an int, a float, a char and a double type variable?

Ans:

```
#include<stdio.h>
int main(){
    int x;
    float y;
```

```
    char z;
    double w;
printf("size of int %d\n",sizeof x);
printf("size of float %d\n",sizeof y);
printf("size of char %d\n",sizeof z);
printf("size of double %d\n",sizeof w);
}
```

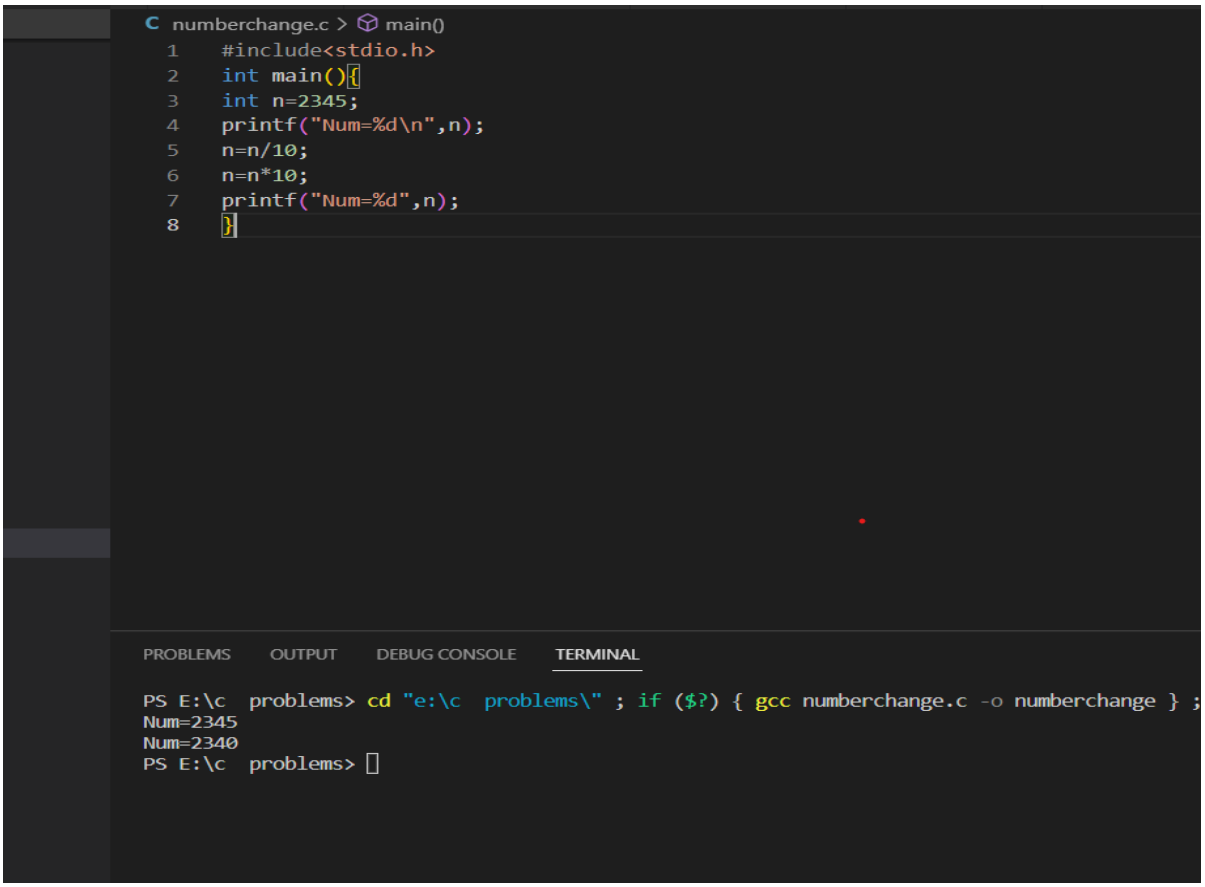


10. Write a program to make the last digit of a number stored in a variable as zero?

Ans:

```
#include<stdio.h>
int main(){
int n=2345;
printf("Num=%d\n",n);
n=n/10;
```

```
n=n*10;

printf("Num=%d",n);

}
```



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)?

Ans:

```
#include<stdio.h>

int main(){

    int num,dig;

    printf("Enter a number:");
```

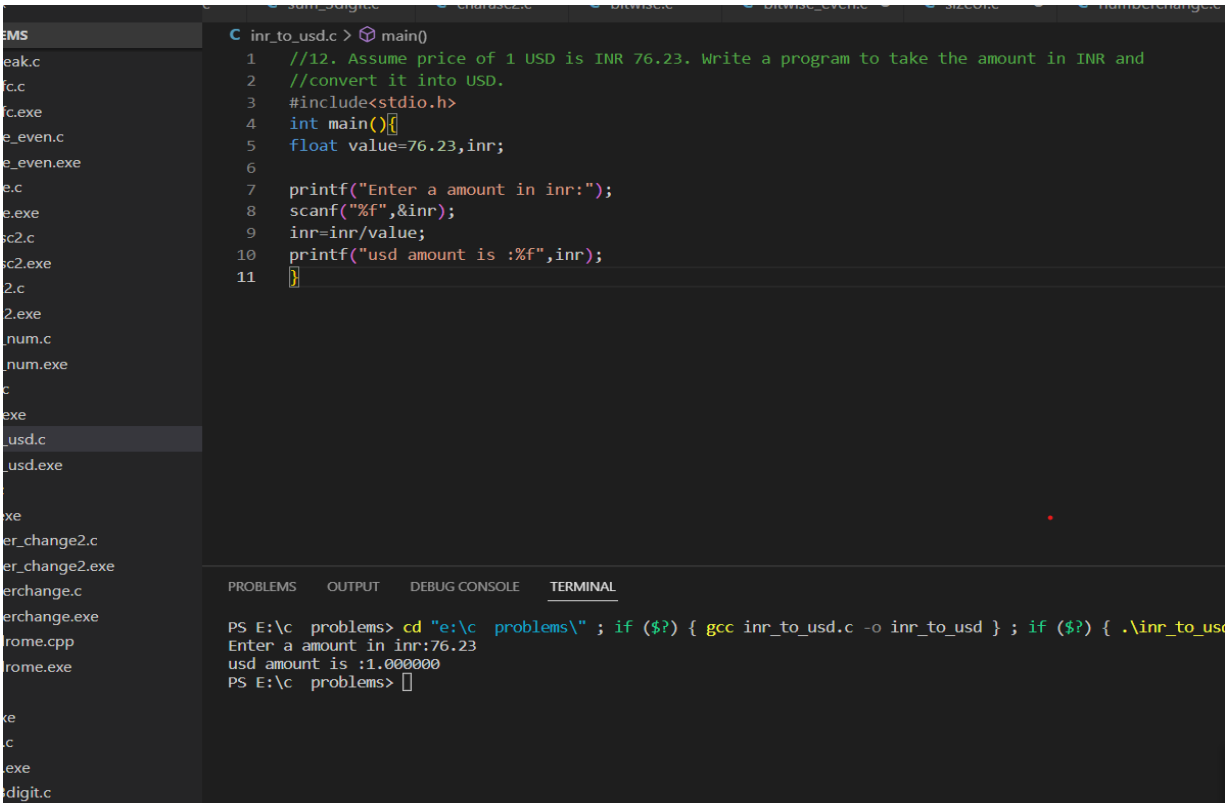
```
    scanf("%d",&num);
    printf("Enter a digit:");
    scanf("%d",&dig);
    num=num*10;
    num=num+dig;
    printf("the change number is:%d",num);
}
```

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

convert it into USD.

Ans:

```
#include<stdio.h>
int main(){
float value=76.23,inr;


printf("Enter a amount in inr:");
scanf("%f",&inr);
inr=inr/value;
printf("usd amount is :%f",inr);
}
```



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

one position towards the right.

Ans:

```
#include<stdio.h>
int main(){
int n;
printf("Enter a number :");
scanf("%d",&n);
n=n%10*100+n/10;
printf("%d",n);
}
```