

Task 1:

```
#include <stdio.h>
int main()
{
    char ch;
    char str[50];
    char sen[99];
    printf("Enter the character: ");
    scanf("%c",&ch);

    printf("Enter the string: ");
    // Amper sign & is not used during array of character
    //cause the variable itself acts as a pinter.
    scanf("%s",str);

    printf("Enter the sentence: ");
    // using scanset"%[^!]" prints the sentence before exclamation mark
    scanf("%[^!]s",sen);

    printf("\n%c\n",ch);
    printf("%s",str);
    printf("%s",sen);
    return 0;
}
```

OUTPUT:

```
''
● Enter the character: C
Enter the string: Language
Enter the sentence: Welcome to c !
C
Language
Welcome to c
● PS C:\TBC\Sem2\Principle of programming\POP\Weekly_Assign
cal2>
```

Task 2:

// Given a three-digit integer print the sum of its digits.

```
#include <stdio.h>
```

```
int main()
{
    int num,sum=0,temp;
    printf("Enter three digit number: ");
    scanf("%3d",&num);
    if (100<=num && num<=999)
    {
        for(int i =1;i<=3;i++)
        {
            temp=num%10;
            sum = temp+sum;
            num/=10;
        }
        /*It finds and adds(remainder which is last digit)
        from the last number until the num becomes 0*/
    }
    printf("Sum of three digit number: %d",sum);
    return 0;
}
```

OUTPUT:

```
\Practical2\" ; if ($?) { gcc task2.c -o task2 } ; if ($?) { .\task2
}
Enter three digit number: 1234
Sum of three digit number: 6
PS C:\TBC\Sem2\Principle of programming\POP\Weekly_Assignment\Practi
cal2> cd "c:\TBC\Sem2\Principle of programming\POP\Weekly_Assignment
\Practical2\" ; if ($?) { gcc task2.c -o task2 } ; if ($?) { .\task2
}
Enter three digit number: 123
Sum of three digit number: 6
PS C:\TBC\Sem2\Principle of programming\POP\Weekly_Assignment\Practi
cal2> |
```