# ES-202

# Introduction to Programming in C

# Assignment-II

# C Programming Exercises

**Note: All students must upload their code on GitHub and submit your GitHub link for the evaluation**

1. [Write a C program to print all alphabets from a to z.](https://codeforwin.org/2015/06/c-program-to-print-a-to-z.html)

Source Code:

#include <stdio.h>

int main()

{

for(int i = 97;i<=122;i++)

{

printf(" %c \n", i);

}

return 0;

}

Output:

A picture containing shape

Description automatically generated

1. [Write a C program to print all even numbers between 1 to 100.](https://codeforwin.org/2015/06/c-program-to-print-all-even-numbers-between-1-to-100.html)

Source Code:

#include <stdio.h>

int main()

{

int sum=0;

for(int i = 2;i<=100;i+=2)

{

sum+=i;

}

printf("The sum is %d \n",sum);

return 0;

}

Output:

Text

Description automatically generated

1. [Write a C program to find sum of all odd numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-sum-of-all-odd-numbers-between-1-to-n.html).

Source Code:

#include <stdio.h>

int main()

{

int n,sum=0;

printf("Enter the number : \n");

scanf("%d",&n);

for(int i = 1;i<=n;i+=2)

{

sum+=i;

}

printf("The sum is %d \n",sum);

return 0;

}

Output:

Graphical user interface, text

Description automatically generated

1. [Write a C program to print multiplication table of any number](https://codeforwin.org/2015/06/c-program-to-print-table-of-any-number.html).

Source Code:

#include <stdio.h>

int main()

{

int n;

printf("Enter the number : \n");

scanf("%d",&n);

for(int i = 1;i<=10;i++)

{

printf("%d X %d = %d \n", n, i,n\*i);

}

return 0;

}

Output:

Text

Description automatically generated

1. [Write a C program to count number of digits in a number](https://codeforwin.org/2016/10/c-program-to-count-number-of-digits-in-number.html).

Source Code:

#include <stdio.h>

#include <math.h>

int main()

{

int a;

printf("Enter a number ");

scanf("%d",&a);

int numofdigits = log10(a)+ 1;

printf("Number of digits = %d", numofdigits);

return 0;

}

Output:

Text

Description automatically generated

1. [Write a C program to find first and last digit of a number](https://codeforwin.org/2015/06/how-to-find-first-and-last-digit-of-any-number.html).

Source Code:

#include <stdio.h>

int main()

{

int n;

int fd,ld;

printf("Enter Number \n");

scanf("%d",&n);

int temp = n;

ld = n%10;

while(temp>0)

{

fd=temp%10;

temp= temp/10;

}

printf("First Digit is %d and Last Digit is %d \n",fd,ld);

}

Output:Text

Description automatically generated

1. [Write a C program to swap first and last digits of a number](https://codeforwin.org/2016/01/c-program-to-swap-first-and-last-digit-of-number.html).

Source Code:

#include <stdio.h>

int main()

{

int n;

int fd,ld,rev;

printf("Enter Number \n");

scanf("%d",&n);

int temp = n;

ld = n%10;

rev = 0;

while(temp>0)

{

fd=temp%10;

rev = rev\*10+fd;

temp= temp/10;

}

int newnum = ld;

temp = rev/10;

while(temp>9)

{

newnum = newnum\*10+(temp%10);

temp/=10;

}

newnum = fd+(newnum\*10);

printf("The reverse number is %d",newnum);

return 0;

}

Output:

Graphical user interface, application

Description automatically generated

1. [Write a C program to find frequency of each digit in each integer](https://codeforwin.org/2016/10/c-program-to-count-frequency-of-digits-in-number.html).

Source Code:

#include <stdio.h>

int main()

{

int num, lastd, i;

int freq [10];

printf("enter number");

scanf ("%d" , &num);

for(i=0; i<10; i++)

{

freq[i] = 0;

}

while (num != 0)

{

lastd = num%10;

freq [lastd]++ ;

num = num/10;

}

for(i=0; i<10; i++)

{

printf("Frequency of %d = %d\n", i, freq[i]);

}

return 0;

}

Output:Text

Description automatically generated with medium confidence

1. [Write a C program to enter a number and print it in words.](https://codeforwin.org/2015/06/c-program-to-print-numbers-in-words.html)

Source Code:

#include <stdio.h>

#include <math.h>

int main()

{

int n, num = 0, digits;

printf("Enter any number to print in words: ");

scanf("%d", &n);

digits = (int) log10(n);

while(n != 0)

{

num = (num \* 10) + (n % 10);

n /= 10;

}

digits = digits - ((int) log10(num));

while(num != 0)

{

switch(num % 10)

{

case 0:

printf("Zero ");

break;

case 1:

printf("One ");

break;

case 2:

printf("Two ");

break;

case 3:

printf("Three ");

break;

case 4:

printf("Four ");

break;

case 5:

printf("Five ");

break;

case 6:

printf("Six ");

break;

case 7:

printf("Seven ");

break;

case 8:

printf("Eight ");

break;

case 9:

printf("Nine ");

break;

}

num /= 10;

}

while(digits)

{

printf("Zero ");

digits--;

}

return 0;

}

Output:

Graphical user interface, text, application

Description automatically generated

1. [Write a C program to print all ASCII character with their values](https://codeforwin.org/2015/06/c-program-to-print-ascii-values-of-all-characters.html).

#include <stdio.h>

int main()

{

for(int i = 33;i<=122;i++)

{

printf("ASCII value of %c = %d \n", i, i);

}

return 0;

}

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Description automatically generated

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