# C ASSIGNMENT II

1.Write a C program to print all alphabets from a to z.

**CODE: –**

#include <stdio.h>

int main()

{

char ch;

printf("Alphabets from a - z are: \n");

for(ch='a'; ch<='z'; ch++)

{

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

}

return 0;

}

2. Write a C program to print all even numbers between 1 to 100

**CODE: –**

#include <stdio.h>

int main(){

for(int i=1;i<=100;i++)

{

// if number module i is equal to 0, then number is even

if(i%2==0)

{

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

}

}

return 0;

}

3. Write a C program to find sum of all odd numbers between 1 to n.

**CODE: –**

#include <stdio.h>

int main()

{

int i, n, sum=0;

/\* Input range to find sum of odd numbers \*/

printf("Enter upper limit: ");

scanf("%d", &n);

/\* Find the sum of all odd number \*/

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

{

sum += i;

}

printf("Sum of odd numbers = %d", sum);

return 0;

}

4. Write a C program to print multiplication table of any number.

#include <stdio.h>

int main() {

int n, i;

printf("Enter an integer: ");

scanf("%d", &n);

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

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

}

return 0;

}

5. Write a C program to count number of digits in a number.

**CODE: –**

#include <stdio.h>

int main()

{

int n;

int count=0;

printf("Enter a number");

scanf("%d",&n);

while(n!=0)

{

n=n/10;

count++;

}

printf("\nThe number of digits in an integer is : %d",count);

return 0;

}

6. Write a C program to find first and last digit of a number.

**CODE: –**

#include <stdio.h>

int main()

{

int n, sum=0, firstDigit, lastDigit;

printf("Enter number = ");

scanf("%d", &n);

// Find last digit of a number

lastDigit = n % 10;

//Find the first digit by dividing n by 10 until n greater then 10

while(n >= 10)

{

n = n / 10;

}

firstDigit = n;

printf("first digit = %d and last digit = %d\n\n", firstDigit,lastDigit);

return 0;

}

8. Write a C program to find frequency of each digit in each integer.

**CODE: –**

#include <stdio.h>

#define BASE 10 /\* Constant \*/

int main()

{

long long num, n;

int i, lastDigit;

int freq[BASE];

/\* Input number from user \*/

printf("Enter any number: ");

scanf("%lld", &num);

/\* Initialize frequency array with 0 \*/

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

{

freq[i] = 0;

}

/\* Copy the value of 'num' to 'n' \*/

n = num;

/\* Run till 'n' is not equal to zero \*/

while(n != 0)

{

/\* Get last digit \*/

lastDigit = n % 10;

/\* Remove last digit \*/

n /= 10;

/\* Increment frequency array \*/

freq[lastDigit]++;

}

/\* Print frequency of each digit \*/

printf("Frequency of each digit in %lld is: \n", num);

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

{

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

}

return 0;}

9. Write a C program to enter a number and print it in words.

**CODE: –**

#include <stdio.h>

int main()

{

int n, num = 0;

/\* Input number from user \*/

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

scanf("%d", &n);

/\* Store reverse of n in num \*/

while(n != 0)

{

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

n /= 10;

}

/\*

\* Extract last digit of number and print corresponding digit in words

\* till num becomes 0

\*/

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 = num / 10;

}

return 0;

}

10. Write a C program to print all ASCII character with their values.

**CODE: –**

#include <stdio.h>

int main() {

char c;

printf("Enter a character: ");

scanf("%c", &c);

// %d displays the integer value of a character

// %c displays the actual character

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

return 0;

}