**QUESTION:01**

**#include <stdio.h>**

**#include <stdlib.h>**

**int main ()**

**{**

**int x,y,sum;**

**printf("enter a number:");**

**scanf("%d",&x);**

**printf("enter a number:");**

**scanf("%d",&y);**

**sum= x+y;**

**printf("the sum of x and y is %d",sum);**

**return 0;**

**}**

**QUESTION:02**

**#include <stdio.h>**

**#include <stdlib.h>**

**int main(int argc, char \*argv[]) {**

**int radius,area;**

**printf("enter radius:");**

**scanf("%d",&radius);**

**float PI= 3.14;**

**area = (radius^2)\*PI;**

**printf("area=%d",area);**

**return 0;**

**}**

**QUESTION:03**

**#include <stdio.h>**

**#include <stdlib.h>**

**int main(int argc, char \*argv[]) {**

**int n;**

**printf("enter a number:");**

**scanf("%d",&n);**

**if(n%2==0){**

**printf("the number is even");**

**}**

**else{**

**printf("the number is odd");**

**}**

**return 0;**

**}**

**Question:04**

**#include <stdio.h>**

**#include <stdlib.h>**

**int main(int argc, char \*argv[]) {**

**int temperature;**

**printf("enter temperature :");**

**scanf("%d",&temperature);**

**if(temperature>0){**

**printf("the temperature is above freezing point");**

**}**

**else{**

**printf("the temperature is below freezing point");**

**}**

**return 0;**

**}**

**QUESTION:05**

**#include <stdio.h>**

**#include <stdlib.h>**

**int main(int argc, char \*argv[]) {**

**int temp;**

**printf("enter temperature in fahrenheit:");**

**scanf("%d",&temp);**

**int Temp\_in\_celcius;**

**Temp\_in\_celcius= (temp-32)\*5/9;**

**printf("temperature in celcius is %d",Temp\_in\_celcius);**

**return 0;**

**}**

**QUESTION:06**

**#include <stdio.h>**

**#include <stdlib.h>**

**int main(int argc, char \*argv[]) {**

**int lf,lc;**

**printf("enter length in feet:");**

**scanf("%d",&lf);**

**lc=lf\*30;**

**printf(" length in centimeter:%d",lc);**

**return 0;**

**}**

**QUESTION:07**

**#include <stdio.h>**

**#include <stdlib.h>**

**int main(int argc, char \*argv[]) {**

**int n,s;**

**n=1;**

**while(n<=10){**

**s= n\*n;**

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

**n++;**

**}**

**return 0;**

**}**

**QUESTION:08**

**Program 8**

**#include <stdio.h>**

**int main() {**

**int low;**

**int high=9;**

**int sum =0;**

**for(low = 3; low <= high; low++) {**

**sum = sum + low;**

**}**

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

**return 0;**

**}**

**Program 9**

**#include <stdio.h>**

**int main() {**

**int low;**

**int high=9;**

**int num =3;**

**for(low = 3; low <= high; low++) {**

**if(low%num == 0) {**

**printf("\n %d is divisible by %d", low,num);**

**}**

**}**

**return 0;**

**}**

**Program 10**

**#include <stdio.h>**

**int main() {**

**double n1, n2, n3;**

**printf("Enter three different numbers: ");**

**scanf("%lf %lf %lf", &n1, &n2, &n3);**

**if (n1 >= n2 && n1 >= n3)**

**printf("%.2f is the largest number.", n1);**

**if (n2 >= n1 && n2 >= n3)**

**printf("%.2f is the largest number.", n2);**

**if (n3 >= n1 && n3 >= n2)**

**printf("%.2f is the largest number.", n3);**

**return 0;**

**}**

**Program 11**

**#include <stdio.h>**

**int main() {**

**int numbers[10];**

**int k, count = 0;**

**int sum=0;**

**int pro=1;**

**printf("Enter 10 digits");**

**for(int i = 0; i < 10; i++) {**

**scanf("%d", &numbers[i]);**

**sum = sum + numbers[i];**

**pro = pro \* numbers[i];**

**}**

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

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

**return 0;**

**}**

**Program 12**

**#include <stdio.h>**

**int main() {**

**int low;**

**int high=100;**

**int count = 0;**

**for(low = 0; low <= high; low++) {**

**printf(low);**

**count = count + 1;**

**}**

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

**return 0;**

**}**

**Program 13**

**#include <stdio.h>**

**int main()**

**{**

**int num=6;**

**int i;**

**// use for loop to iterate the number from 1 to 10**

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

**{**

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

**}**

**return 0;**

**}**

**Program 14**

**#include <stdio.h>**

**int main() {**

**int n, i;**

**unsigned long long fact = 1;**

**printf("Enter an integer: ");**

**scanf("%d", &n);**

**if (n < 0)**

**printf("Error! Factorial of a negative number doesn't exist.");**

**else {**

**for (i = 1; i <= n; ++i) {**

**fact \*= i;**

**}**

**printf("Factorial of %d = %llu", n, fact);**

**}**

**return 0;**

**}**

**Program 15**

**#include <stdio.h>**

**int main() {**

**int n, i;**

**printf("Enter an integer: ");**

**scanf("%d", &n);**

**for (i = n; i >= 1; --i) {**

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

**}**

**return 0;**

**}**

**Program 16**

**#include <stdio.h>**

**int main() {**

**int counter;**

**int sum =0;**

**for(counter = 1000; counter <= 2000; counter++) {**

**/\* Even numbers are divisible by 2 \*/**

**if(counter%2 == 0) {**

**sum = sum + counter;**

**printf("%d ", counter);**

**}**

**}**

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

**return 0;**

**}**

**Program 18**

**#include<stdio.h>**

**#include<stdlib.h>**

**int main(){**

**int a[10],n,i;**

**system ("cls");**

**printf("Enter the number to convert: ");**

**scanf("%d",&n);**

**for(i=0;n>0;i++)**

**{**

**a[i]=n%2;**

**n=n/2;**

**}**

**printf("\nBinary of Given Number is=");**

**for(i=i-1;i>=0;i--)**

**{**

**printf("%d",a[i]);**

**}**

**return 0;**

**}**

**Program 19**

**#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;**

**}**

**Program 20**

**#include <stdio.h>**

**int main() {**

**long long n;**

**int count = 0;**

**printf("Enter an integer: ");**

**scanf("%lld", &n);**

**do {**

**n /= 10;**

**++count;**

**} while (n != 0);**

**printf("Number of digits: %d", count);**

**}**

**Program 21**

**#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;**

**}**

**Program 22**

**#include <stdio.h>**

**#include <math.h>**

**int main()**

**{**

**int n,firstDigit, lastDigit,digits, swappedNum;**

**printf("Enter number = ");**

**scanf("%d", &n);**

**//Find last digit of a number**

**lastDigit = n % 10;**

**//Find total number of digits - 1**

**digits = (int)log10(n);**

**//Find first digit**

**firstDigit = (int) (n / pow(10, digits));**

**swappedNum = lastDigit;**

**swappedNum \*= (int) round(pow(10, digits));**

**swappedNum += n % ((int)round(pow(10, digits)));**

**swappedNum -= lastDigit;**

**swappedNum += firstDigit;**

**printf("Number after swapping first and last digit: %d", swappedNum);**

**return 0;**

**}**

**Program 23**

**#include <stdio.h>**

**int main() {**

**int n, reversed = 0, remainder, original;**

**printf("Enter an integer: ");**

**scanf("%d", &n);**

**original = n;**

**// reversed integer is stored in reversed variable**

**while (n != 0) {**

**remainder = n % 10;**

**reversed = reversed \* 10 + remainder;**

**n /= 10;**

**}**

**// palindrome if orignal and reversed are equal**

**if (original == reversed)**

**printf("%d is a palindrome.", original);**

**else**

**printf("%d is not a palindrome.", original);**

**return 0;**

**}**

**Program 24**

**#include <stdio.h>**

**int main() {**

**int numbers[10];**

**int remainder, k, count = 0;**

**printf("Enter 10 digits to store : ");**

**for(int i = 0; i < 10; i++) {**

**scanf("%d", &numbers[i]);**

**}**

**printf("Which number do you want to find: \n");**

**scanf("%d", &k);**

**for(int i = 0; i < 10; i++) {**

**remainder=numbers[i];**

**if(remainder==k)count++;**

**}**

**printf("\Number %d occurs %d times.\n", k, count);**

**return 0;**

**}**

**Program 25**

**#include <stdio.h>**

**int main()**

**{**

**int n1, n2, i, hcf;**

**printf("Enter two integers: ");**

**scanf("%d %d", &n1, &n2);**

**for(i=1; i <= n1 && i <= n2; ++i)**

**{**

**// Checks if i is factor of both integers**

**if(n1%i==0 && n2%i==0)**

**hcf = i;**

**}**

**printf("H.C.F of %d and %d is %d", n1, n2, hcf);**

**return 0;**

**}Program 8**

**#include <stdio.h>**

**int main() {**

**int low;**

**int high=9;**

**int sum =0;**

**for(low = 3; low <= high; low++) {**

**sum = sum + low;**

**}**

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

**return 0;**

**}**

**Program 9**

**#include <stdio.h>**

**int main() {**

**int low;**

**int high=9;**

**int num =3;**

**for(low = 3; low <= high; low++) {**

**if(low%num == 0) {**

**printf("\n %d is divisible by %d", low,num);**

**}**

**}**

**return 0;**

**}**

**Program 10**

**#include <stdio.h>**

**int main() {**

**double n1, n2, n3;**

**printf("Enter three different numbers: ");**

**scanf("%lf %lf %lf", &n1, &n2, &n3);**

**if (n1 >= n2 && n1 >= n3)**

**printf("%.2f is the largest number.", n1);**

**if (n2 >= n1 && n2 >= n3)**

**printf("%.2f is the largest number.", n2);**

**if (n3 >= n1 && n3 >= n2)**

**printf("%.2f is the largest number.", n3);**

**return 0;**

**}**

**Program 11**

**#include <stdio.h>**

**int main() {**

**int numbers[10];**

**int k, count = 0;**

**int sum=0;**

**int pro=1;**

**printf("Enter 10 digits");**

**for(int i = 0; i < 10; i++) {**

**scanf("%d", &numbers[i]);**

**sum = sum + numbers[i];**

**pro = pro \* numbers[i];**

**}**

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

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

**return 0;**

**}**

**Program 12**

**#include <stdio.h>**

**int main() {**

**int low;**

**int high=100;**

**int count = 0;**

**for(low = 0; low <= high; low++) {**

**printf(low);**

**count = count + 1;**

**}**

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

**return 0;**

**}**

**Program 13**

**#include <stdio.h>**

**int main()**

**{**

**int num=6;**

**int i;**

**// use for loop to iterate the number from 1 to 10**

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

**{**

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

**}**

**return 0;**

**}**

**Program 14**

**#include <stdio.h>**

**int main() {**

**int n, i;**

**unsigned long long fact = 1;**

**printf("Enter an integer: ");**

**scanf("%d", &n);**

**if (n < 0)**

**printf("Error! Factorial of a negative number doesn't exist.");**

**else {**

**for (i = 1; i <= n; ++i) {**

**fact \*= i;**

**}**

**printf("Factorial of %d = %llu", n, fact);**

**}**

**return 0;**

**}**

**Program 15**

**#include <stdio.h>**

**int main() {**

**int n, i;**

**printf("Enter an integer: ");**

**scanf("%d", &n);**

**for (i = n; i >= 1; --i) {**

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

**}**

**return 0;**

**}**

**Program 16**

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**int main() {**

**int counter;**

**int sum =0;**

**for(counter = 1000; counter <= 2000; counter++) {**

**/\* Even numbers are divisible by 2 \*/**

**if(counter%2 == 0) {**

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**#include<stdlib.h>**

**int main(){**

**int a[10],n,i;**

**system ("cls");**

**printf("Enter the number to convert: ");**

**scanf("%d",&n);**

**for(i=0;n>0;i++)**

**{**

**a[i]=n%2;**

**n=n/2;**

**}**

**printf("\nBinary of Given Number is=");**

**for(i=i-1;i>=0;i--)**

**{**

**printf("%d",a[i]);**

**}**

**return 0;**

**}**

**Program 19**

**#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;**

**}**

**Program 20**

**#include <stdio.h>**

**int main() {**

**long long n;**

**int count = 0;**

**printf("Enter an integer: ");**

**scanf("%lld", &n);**

**do {**

**n /= 10;**

**++count;**

**} while (n != 0);**

**printf("Number of digits: %d", count);**

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**int main()**

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**// 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)**

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**n = n / 10;**

**}**

**firstDigit = n;**

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

**return 0;**

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**Program 22**

**#include <stdio.h>**

**#include <math.h>**

**int main()**

**{**

**int n,firstDigit, lastDigit,digits, swappedNum;**

**printf("Enter number = ");**

**scanf("%d", &n);**

**//Find last digit of a number**

**lastDigit = n % 10;**

**//Find total number of digits - 1**

**digits = (int)log10(n);**

**//Find first digit**

**firstDigit = (int) (n / pow(10, digits));**

**swappedNum = lastDigit;**

**swappedNum \*= (int) round(pow(10, digits));**

**swappedNum += n % ((int)round(pow(10, digits)));**

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**original = n;**

**// reversed integer is stored in reversed variable**

**while (n != 0) {**

**remainder = n % 10;**

**reversed = reversed \* 10 + remainder;**

**n /= 10;**

**}**

**// palindrome if orignal and reversed are equal**

**if (original == reversed)**

**printf("%d is a palindrome.", original);**

**else**

**printf("%d is not a palindrome.", original);**

**return 0;**

**}**

**Program 24**

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**int main() {**

**int numbers[10];**

**int remainder, k, count = 0;**

**printf("Enter 10 digits to store : ");**

**for(int i = 0; i < 10; i++) {**

**scanf("%d", &numbers[i]);**

**}**

**printf("Which number do you want to find: \n");**

**scanf("%d", &k);**

**for(int i = 0; i < 10; i++) {**

**remainder=numbers[i];**

**if(remainder==k)count++;**

**}**

**printf("\Number %d occurs %d times.\n", k, count);**

**return 0;**

**}**

**Program 25**

**#include <stdio.h>**

**int main()**

**{**

**int n1, n2, i, hcf;**

**printf("Enter two integers: ");**

**scanf("%d %d", &n1, &n2);**

**for(i=1; i <= n1 && i <= n2; ++i)**

**{**

**// Checks if i is factor of both integers**

**if(n1%i==0 && n2%i==0)**

**hcf = i;**

**}**

**printf("H.C.F of %d and %d is %d", n1, n2, hcf);**

**return 0;**

**}**