Programs for CP class

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**SIMPLE PROGRAMS**

1. **//product of n numbers**

#include <stdio.h>

int main() {

int n, i, product = 1;

printf("Enter a number: ");

scanf("%d", &n);

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

product = product \* i;

printf("product = %d", product );

}

return 0;

}

1. **// sum of n numbers**

#include <stdio.h>

int main() {

int n, i, sum = 0;

printf("Enter a number: ");

scanf("%d", &n);

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

sum = sum + i;

}

printf("sum = %d", sum );

return 0;

}

1. **//printing even numbers within the given range**

#include <stdio.h>

int main() {

int n, i;

printf("Enter a range: ");

scanf("%d", &n);

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

{

if (i%2 == 0)

{

printf("%d " , i);

}

}

return 0;

}

1. **//printing odd numbers within the given range**

#include <stdio.h>

int main()

{

int n, i;

printf("Enter a range: ");

scanf("%d", &n);

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

{

if (i%2 != 0)

printf("%d " , i);

}

return 0;

}

1. **//printing A to Z**

#include <stdio.h>

int main()

{

char i;

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

for(i='A'; i<='Z'; i++)

{

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

}

return 0;

}

1. **// sum of n even numbers**

#include <stdio.h>

int main()

{

int i, n, sum=0;

printf("Enter the range: ");

scanf("%d", &n);

for(i=0; i<=n; i+=2)

{

sum += i;

}

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

return 0;

}

1. **//sum on n odd numbers**

#include <stdio.h>

int main()

{

int i, n, sum=0;

printf("Enter the range: ");

scanf("%d", &n);

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

{

sum += i;

}

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

return 0;

}

1. **//printing multiplication table**

#include <stdio.h>

int main()

{

int i, num, x;

printf("Enter number to print multiplication table: ");

scanf("%d", &num);

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

{

x= num\*i;

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

}

return 0;

}

1. **//to count no. of digits in the given number**

#include <stdio.h>

int main()

{

long long num;

int count = 0;

printf("Enter any number: ");

scanf("%lld", &num);

while(num != 0)

{

count++;

num = num / 10;

}

printf("no. of digits: %d", count);

return 0;

}

1. // program to find last digit of a number

#include <stdio.h>

int main()

{

int n, lastDigit;

printf("Enter any number: ");

scanf("%d", &n);

lastDigit = n % 10;

printf("Last digit = %d", lastDigit);

return 0;

}

1. // program to find no. of digit in a number

#include <stdio.h>

#include <math.h>

int main()

{

int n, x,b;

printf("Enter any number: ");

scanf("%d", &n);

x = log10(n);

printf("no of digits = %d" , x+1);

return 0;

}