Assignment – 05

A Job Ready Bootcamp in C++, DSA and IOT

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1. Write a program to print MySirG N times on the screen

Program:

#include<stdio.h>

int main(){

int i,n;

printf("Enter the numbre of times to print a letter MySirG:");

scanf("%d",&n);

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

{

printf("MySirG\n");

}

return 0;

}Output;

Enter the numbre of times to print a letter MySirG: 6

MySirG

MySirG

MySirG

MySirG

MySirG

MySirG

--------------------------------

Process exited after 9.083 seconds with return value 0

Press any key to continue . . .

1. Write a program to print the first N natural numbers.

Program:

//2. Write a program to print the first N natural numbers.

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for N natural number:\n");

scanf("%d",&n);

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

{

printf("%d ",i);

}

return 0;

}

Output;

Enter the value of N for N natural number:

15

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

--------------------------------

Process exited after 1.817 seconds with return value 0

Press any key to continue . . .

1. Write a program to print the first N natural numbers in reverse order

Program:

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for N natural number for reverse order:\n");

scanf("%d",&n);

for(i=n; i>0; i--)

{

printf("%d ",i);

}

return 0;

}

Output:

Enter the value of N for N natural number for reverse order:

15

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

--------------------------------

Process exited after 2.571 seconds with return value 0

Press any key to continue . . .

1. Write a program to print the first N odd natural numbers

program:

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for odd number:\n");

scanf("%d",&n);

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

{

printf("%d ",(2\*i-1));

}

return 0;

}

Output:

Enter the value of N for odd number:

15

1 3 5 7 9 11 13 15 17 19 21 23 25 27

--------------------------------

Process exited after 3.782 seconds with return value 0

Press any key to continue . . .

1. Write a program to print the first N odd natural numbers in reverse order.

Program:

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for odd numberin reverse order:\n");

scanf("%d",&n);

for(i=n; i>0; i--)

{

printf("%d ",(2\*i-1));

}

return 0;

}

Output:

Enter the value of N for odd numberin reverse order:

15

29 27 25 23 21 19 17 15 13 11 9 7 5 3 1

--------------------------------

Process exited after 2.367 seconds with return value 0

Press any key to continue . . .

1. Write a program to print the first N even natural numbers

Program;

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for first N even number:\n");

scanf("%d",&n);

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

{

printf("%d ",(2\*i));

}

return 0;

}

Output:

Enter the value of N for first N even number:

15

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

--------------------------------

Process exited after 2.595 seconds with return value 0

Press any key to continue . . .

1. Write a program to print the first N even natural numbers in reverse order

program:

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for first N even number in reverse order:\n");

scanf("%d",&n);

for(i=n; i>0; i--)

{

printf("%d ",(2\*i));

}

return 0;

}

Output:

Enter the value of N for first N even number in reverse order:

15

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

--------------------------------

Process exited after 1.799 seconds with return value 0

Press any key to continue . . .

1. Write a program to print squares of the first N natural numbers

Program:

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for square of first N number in reverse order:\n");

scanf("%d",&n);

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

{

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

}

return 0;

}

Output:

Enter the value of N for square of first N number in reverse order:

15

1 x 1 = 1

2 x 2 = 4

3 x 3 = 9

4 x 4 = 16

5 x 5 = 25

6 x 6 = 36

7 x 7 = 49

8 x 8 = 64

9 x 9 = 81

10 x 10 = 100

11 x 11 = 121

12 x 12 = 144

13 x 13 = 169

14 x 14 = 196

15 x 15 = 225

--------------------------------

Process exited after 1.456 seconds with return value 0

Press any key to continue . . .

1. Write a program to print cubes of the first N natural numbers

Program:

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for cube of first N number:\n");

scanf("%d",&n);

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

{

printf("%d^3= %d \n",i,(i\*i\*i));

}

return 0;

}

Output:

15

1^3= 1

2^3= 8

3^3= 27

4^3= 64

5^3= 125

6^3= 216

7^3= 343

8^3= 512

9^3= 729

10^3= 1000

11^3= 1331

12^3= 1728

13^3= 2197

14^3= 2744

15^3= 3375

--------------------------------

Process exited after 1.972 seconds with return value 0

Press any key to continue . . .

1. Write a program to print a table of N.

Program:

#include<stdio.h>

int main(){

int i,n;

printf("Enter the value of N for its table:\n");

scanf("%d",&n);

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

{

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

}

return 0;

}

Ouptut:

Enter the value of N for its table:

15

15 x 1 = 15

15 x 2 = 30

15 x 3 = 45

15 x 4 = 60

15 x 5 = 75

15 x 6 = 90

15 x 7 = 105

15 x 8 = 120

15 x 9 = 135

15 x 10 = 150

--------------------------------

Process exited after 0.6724 seconds with return value 0

Press any key to continue . . .