Assignment – 04

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

Iterative Control Statements

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1. Write a program to print MySirG 5 times on the screen

Program:

#include<stdio.h>

int main(){

int i;

for(i=0;i<5;i++)

{

printf("MySirG");

printf("\n");

}

return 0;

}

Output:

MySirG

MySirG

MySirG

MySirG

MySirG

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

Process exited after 0.2437 seconds with return value 0

Press any key to continue . . .;

2. Write a program to print the first 10 natural numbers.

Program:

#include<stdio.h>

int main(){

int i;

printf("First 10 natural number:\n");

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

{

printf("%d ",i);

}

return 0;

}

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Output:

First 10 natural number:

1 2 3 4 5 6 7 8 9 10

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Process exited after 0.08134 seconds with return value 0

Press any key to continue . . .

3. Write a program to print the first 10 natural numbers in reverse order.

Program:

#include<stdio.h>

int main(){

int i;

printf("First 10 natural number in reverse order:\n");

for(i=10; i>0; i--)

{

printf("%d ",i);

}

return 0;

}

Output:

First 10 natural number in reverse order:

10 9 8 7 6 5 4 3 2 1

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

Process exited after 0.05134 seconds with return value 0

Press any key to continue . . .

4. Write a program to print the first 10 odd natural numbers.

Progaram:

#include<stdio.h>

int main(){

int i;

printf("First 10 odd numbers:\n");

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

{

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

}

return 0;

}

Output:

First 10 odd numbers:

1 3 5 7 9 11 13 15 17 19

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

Process exited after 0.05341 seconds with return value 0

Press any key to continue . . .

5. Write a program to print the first 10 odd natural numbers in reverse order.

Program:

#include<stdio.h>

int main(){

int i;

printf("First 10 odd numbers:\n");

for(i=10; i>0; i--)

{

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

}

return 0;

}

Output:

First 10 odd numbers:

19 17 15 13 11 9 7 5 3 1

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

Process exited after 0.06216 seconds with return value 0

Press any key to continue . . .

6. Write a program to print the first 10 even natural numbers

Program:

#include<stdio.h>

int main(){

int i;

printf("First 10 even numbers:\n");

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

{

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

}

return 0;

}

Output:

First 10 even numbers:

2 4 6 8 10 12 14 16 18 20

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

Process exited after 0.03065 seconds with return value 0

Press any key to continue . . .

7. Write a program to print the first 10 even natural numbers in reverse order

Program:

#include<stdio.h>

int main(){

int i;

printf("First 10 even numbers in reverse order:\n");

for(i=10;i>0;i--)

{

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

}

return 0;

}

Output:

First 10 even numbers in reverse order:

20 18 16 14 12 10 8 6 4 2

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

Process exited after 0.06187 seconds with return value 0

Press any key to continue . . .

8. Write a program to print squares of the first 10 natural numbers.

Program:

#include<stdio.h>

int main(){

int i;

printf("Square of first 10 natural numbers:\n");

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

{

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

}

return 0;

}

Output:

Square of first 10 natural numbers:

1 4 9 16 25 36 49 64 81 100

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

Process exited after 0.04257 seconds with return value 0

Press any key to continue . . .

9. Write a program to print cubes of the first 10 natural numbers

Program:

#include<stdio.h>

int main(){

int i;

printf("cube of first 10 natural numbers:\n");

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

{

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

}

return 0;

}

Output:

cube of first 10 natural numbers:

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

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Process exited after 0.06627 seconds with return value 0

Press any key to continue . . .

10. Write a program to print a table of 5.

Program:

#include<stdio.h>

int main(){

int i;

printf("Table of 5:\n");

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

{

printf("5 x %d = %d\n",i,(5\*i));

}

return 0;

}

Output:

Table of 5:

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

5 x 6 = 30

5 x 7 = 35

5 x 8 = 40

5 x 9 = 45

5 x 10 = 50

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Process exited after 0.03381 seconds with return value 0

Press any key to continue . . .