Assignment – 5

More on Iterative Control Statements

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

#include<stdio.h>

int main()

{

int n;

printf(" Enter the number");

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

for(int i=0; i<=n; i++){

printf(" MySirG\n");

}

return 0;

}

Output-

Enter the number 5

MySirG

MySirG

MySirG

MySirG

MySirG

MySirG

2. Write a program to print the first N natural numbers ?  
solve-

#include<stdio.h>

int main()

{

int n;

printf(" Enter the numbers ");

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

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

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

}

return 0;

}

Output -

Enter the numbers 10

1

2

3

4

5

6

7

8

9

10

3. Write a program to print the first N natural numbers in reverse order ?  
solve –

#include<stdio.h>

int main()

{

int n;

printf("enter the numbers ");

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

for(int i=0; i<=n; i++){

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

}

return 0;

}

Output —

enter the numbers 5

5

4

3

2

1

0

4. Write a program to print the first N odd natural numbers ?  
solve-

#include<stdio.h>

int main()

{

int n;

printf("Enter the numbers ");

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

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

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

}

return 0;

}

Output

Enter the numbers 10

1

3

5

7

9

11

13

15

17

19

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

Solve-

#include<stdio.h>

int main()

{

int n;

printf("Enter the numbers ");

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

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

printf("%d\n",20-(2\*i-1));

}

return 0;

}

Output-

Enter the numbers 10

19

17

15

13

11

9

7

5

3

1

6. Write a program to print the first N even natural numbers ?  
solve-

#include<stdio.h>

int main()

{

int n;

printf("Enter the numbers ");

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

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

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

}

return 0;

}

Output –

Enter the numbers 10

2

4

6

8

10

12

14

16

18

20

7. Write a program to print the first N even natural numbers in reverse order ?  
solve-

#include<stdio.h>

int main()

{

int n;

printf("Enter the numbers ");

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

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

printf("%d\n",20-(2\*i));

}

return 0;

}

Output –

Enter the numbers 10

18

16

14

12

10

8

6

4

2

0

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

Solve –

#include<stdio.h>

int main()

{

int n;

printf("Enter the numbers ");

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

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

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

}

return 0;

}

Output-

Enter the numbers 10

1

4

9

16

25

36

49

64

81

100

9. Write a program to print cubes of the first N natural numbers ?  
solve-

#include<stdio.h>

int main()

{

int n;

printf("Enter the numbers ");

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

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

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

}

return 0;

}

Output-

Enter the numbers 10

1

8

27

64

125

216

343

512

729

1000

10. Write a program to print a table of N ?  
solve-

#include<stdio.h>

int main()

{

int n;

printf("Enter the numbers ");

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

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

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

}

return 0;

}

Output-

Enter the numbers 5

5

10

15

20

25

30

35

40

45

50