Assignment - 5 (More on Iterative Control Statements)

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

#include<stdio.h>

int main()

{

int i, N;

printf("How many times do you want to print \"MySirG\" on the screen? ");

scanf("%d", &N);

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

printf("MySirG ");

return 0;

}

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

#include<stdio.h>

int main()

{

int N, i = 1;

printf("Enter value of N to print first N natural numbers on screen: ");

scanf("%d", &N);

while(i <= N)

{

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

i++;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int N;

printf("Enter value of N to print first N natural numbers in reverse order: ");

scanf("%d", &N);

while(N)

{

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

N--;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int N, i = 0;

printf("Enter value of N to print first N odd natural numbers: ");

scanf("%d", &N);

while(i < N)

{

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

i++;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int N;

printf("Enter value of N to print first N odd natural numbers in reverse order: ");

scanf("%d", &N);

while(N > 0)

{

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

N--;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int N, i = 1;

printf("Enter value of N to print first N even natural numbers: ");

scanf("%d", &N);

while(i <= N)

{

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

i++;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int N;

printf("Enter value of N to print first N even natural numbers in reverse order: ");

scanf("%d", &N);

while(N)

{

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

N--;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int N, i = 1;

printf("Enter value of N to print squares of first N natural numbers: ");

scanf("%d", &N);

while(i <= N)

{

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

i++;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int i = 1, N;

printf("Enter a number N to print cubes of first N natural numbers: ");

scanf("%d", &N);

while(i <= N)

{

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

i++;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int number, i = 1;

printf("Enter a number: ");

scanf("%d", &number);

while(i <= 10)

{

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

i++;

}

return 0;

}