SHAID SMARAK COLLEGE
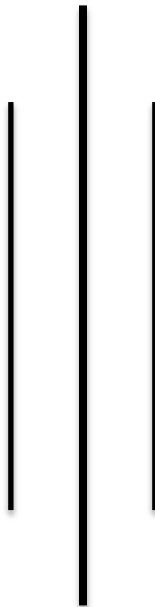
Kirtipur-10, Kathmandu

Assignment No. 4 of C -Programming

Submitted by:-   **Submitted to:-**

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C - PROGRAMMING

Assignment No. 4
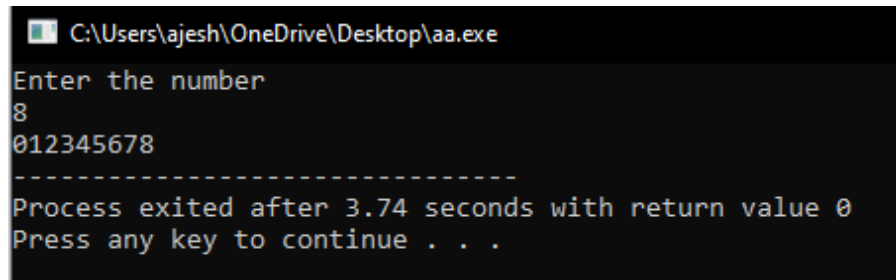
1. While Statement:

Program for generating N natural numbers.

Program

```c
1   # include<stdio.h>
2   int main()
3   {
4       int n, i=0;
5       printf("Enter the number\n");
6       scanf("%d", &n);
7       while(i <=n)
8       {
9           printf("%d",i) ,i;
10          i++;
11      }
12      return 0;
13  }
```
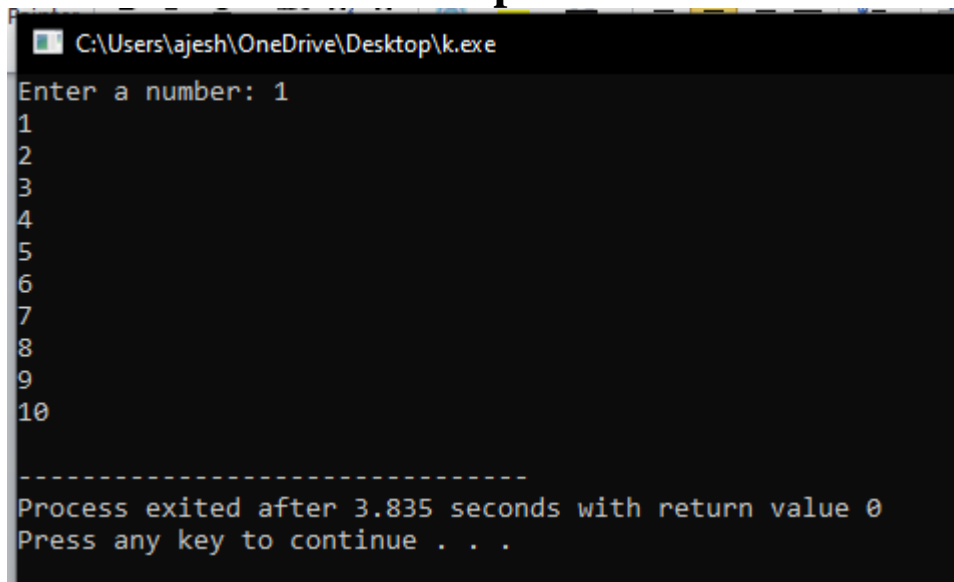
Output

```
C:\Users\ajesh\OneDrive\Desktop\aa.exe

Enter the number
8
012345678
--------------------------------
Process exited after 3.74 seconds with return value 0
Press any key to continue . . .
```

2. Program to Illustrate do...while loop.

Program

```c
1   #include<stdio.h>
2   int main()
3   {
4       int i=1,n=0;
5       printf("Enter a number: ");
6       scanf("%d",&n);
7       do{
8       printf("%d \n",(n*i));
9       i++;
10      }
11      while(i<=10);
12      return 0;
13  }
```

Output

```
C:\Users\ajesh\OneDrive\Desktop\k.exe

Enter a number: 1
1
2
3
4
5
6
7
8
9
10

------------------------------
Process exited after 3.835 seconds with return value 0
Press any key to continue . . .
```
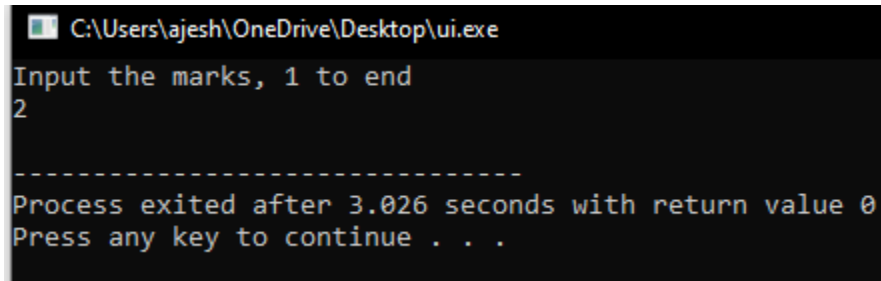
3. **Break Statement:**

Program to calculate average marks

Program

```c
#include<stdio.h>
main()
{
    int i, D=0;
    float sum=0,average;
    printf("Input the marks, 1 to end\n");
    while(1)
    {
        scanf("%d",&i);
        if(i=1)
        break;
        sum+=i;
        D++ ;
    }
    return 0;
}
```

Output

```
C:\Users\ajesh\OneDrive\Desktop\ui.exe

Input the marks, 1 to end
2

--------------------------------
Process exited after 3.026 seconds with return value 0
Press any key to continue . . .
```

4. Continue Statement:

Program to find sum of all positive numbers

Program

```c
1    #include<stdio.h>
2    main()
3    {
4    int i=1, num, sum=0;
5    for (i = 0; i < 5;i++);
6    {
7    printf("Enter the number");
8    scanf("%i", &num);
9    if(num< 0)
10   {
11   printf("You have entered a negative number");
12   }
13   sum+=num;
14   }
15   printf("The sum of positive numbers entered = %d",sum);
16   return 0;
17   }
```

Output

```
C:\Users\ajesh\OneDrive\Desktop\jg.exe

Enter the number20
The sum of positive numbers entered = 20
-------------------------------
Process exited after 4.453 seconds with return value 0
Press any key to continue . . . _
```
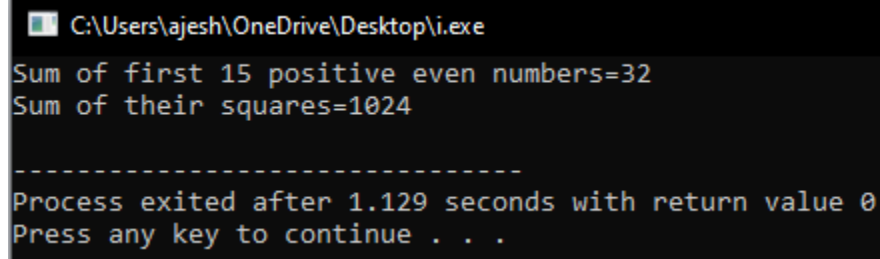
5. For Loop:

Program to find sum of first 15 positive even numbers and sum of their squares.

Program

```c
#include<stdio.h >
 main()
{
int i;
int sum=0,sum_of_squares=0;
for(i=0;i<=3; i+=2);
{
sum+=i;
sum_of_squares+=i*i;
}
printf("Sum of first 15 positive even numbers=%d\n",sum);
printf("Sum of their squares=%d\n",sum_of_squares);
return 0;
}
```

Output

```
C:\Users\ajesh\OneDrive\Desktop\i.exe

Sum of first 15 positive even numbers=32
Sum of their squares=1024

----------------------------------
Process exited after 1.129 seconds with return value 0
Press any key to continue . . .
```

The end