Name : Rakesh Mahadev Bandi
Class : SYCSE
PRN No : 2024065738

Practical No 1

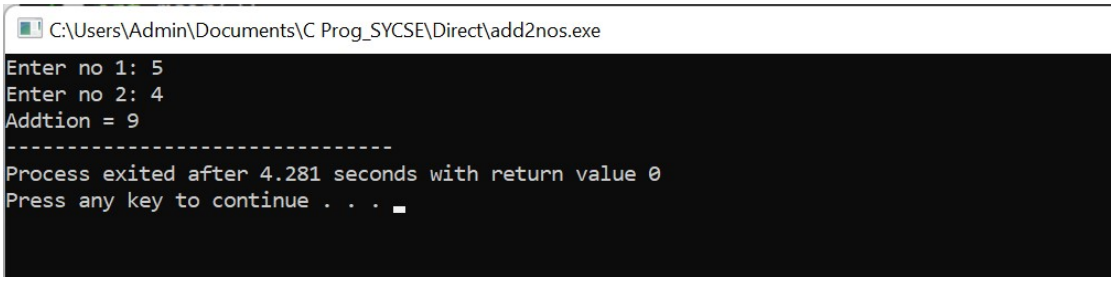
- Program 1: Print Hello World

```
#include<stdio.h>
int main(){
   printf("Hello World");
   return 0;
}
```

- Program 2: Addition of 2 numbers

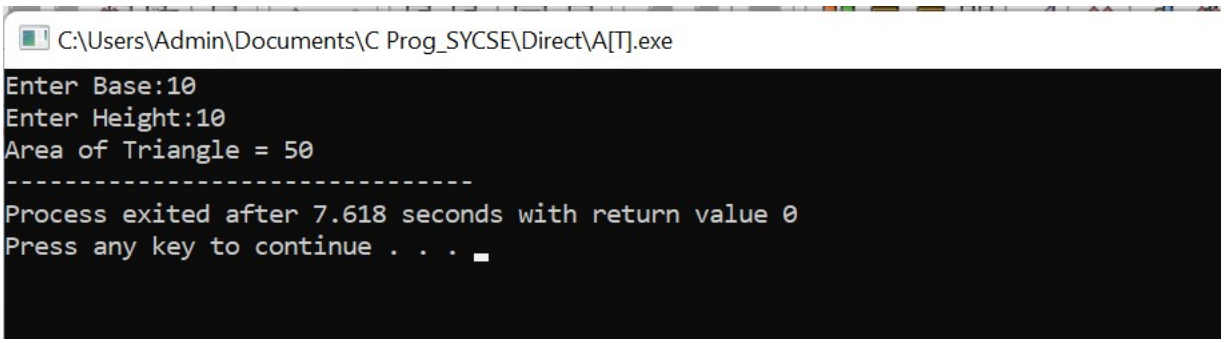
```
#include<stdio.h>
int main(){
   int a,b,sum;
   sum=0;

   printf("Enter no 1:");
   scanf("%d",&a);

   printf("Enter no 2:");
   scanf("%d",&b);
   sum=a+b;

   printf("Addtion = %d",sum);

   return 0;
```

}



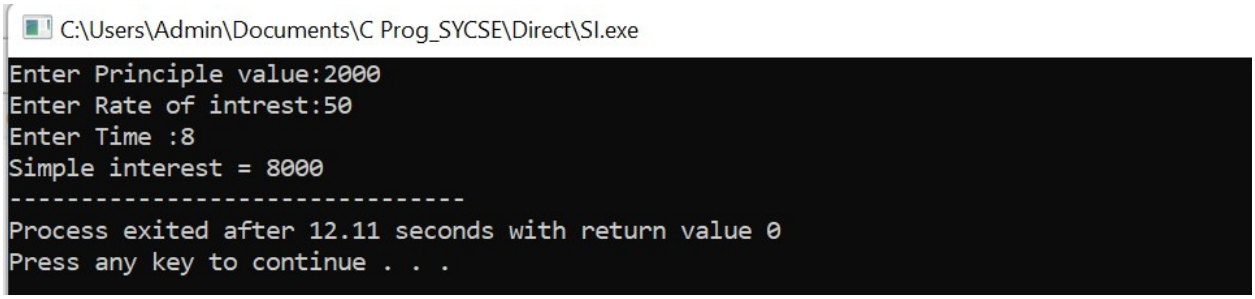
- Program 3: Calculate area of triangle

```
#include<stdio.h>
int main(){
   int b,h,area;
   area=0;

   printf("Enter Base:");
   scanf("%d",&b);

   printf("Enter Height:");
   scanf("%d",&h);

   area=(b*h)/2;

   printf("Area of Triangle = %d",area);
   return 0;
}
```



- Program 4 : Calculate Simple Interest

```
#include<stdio.h>
int main(){
   int p,r,t,si;
   si=0;

   printf("Enter Principle value:");
   scanf("%d",&p);

   printf("Enter Rate of intrest:");
   scanf("%d",&r);

   printf("Enter Time :");
   scanf("%d",&t);

   si=(p*r*t)/100;

   printf("Simple interest = %d",si);
   return 0;
}
```



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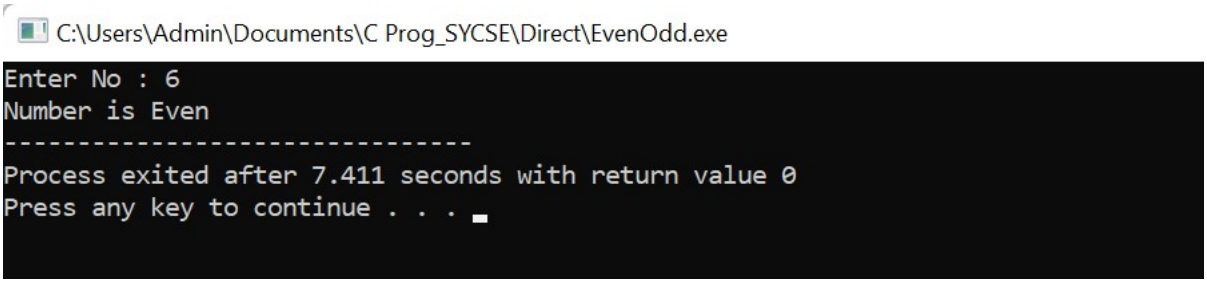
Practical No 2

- Program 1: Check the number is even or odd

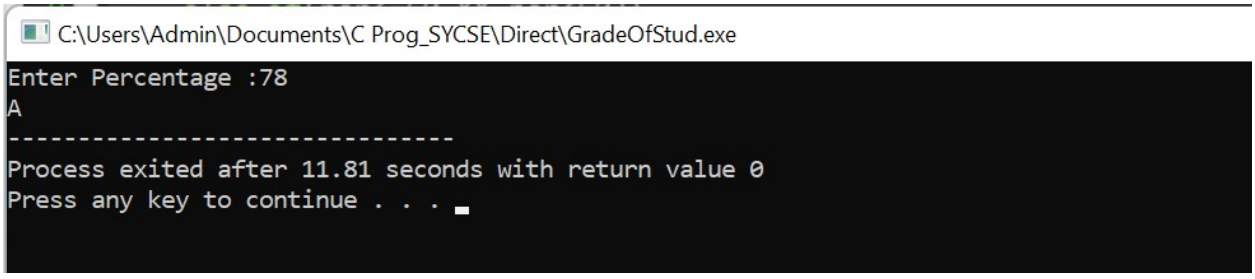
```
#include<stdio.h>
int main(){
   int no;
   printf("Enter No :");
   scanf("%d",&no);
   if(no%2==0){
      printf("Number is Even");
   }
   else{
      printf("Nummber is odd");
   }
   return 0;
}
```



- Program 2 :Compute grade of student

```
#include<stdio.h>
int main(){
   int per;
   printf("Enter Percentage :");
   scanf("%d",&per);
```

```
    if(per<50){
        printf("F");
    }
    else if(per<=50 && per<60){
        printf("C");
    }
    else if(per<=60 && per<70){
        printf("B");
    }
    else if(per<=70 && per<80){
        printf("B+");
    }
    else if(per<=80 && per<90){
        printf("A");
    }
    else if(per<=90 && per<100){
        printf("A+");
    }
    return 0;
}
```



- Program 3 : Check year is Leap year or not

```
#include<stdio.h>
int main(){
    int year;
    printf("Enter Year : ");
    scanf("%d",&year);
    if(year%4==0){
        printf("%d is leap year",year);
    }
```

```
    else{
        printf("%d is not leap year",year);
    }
    return 0;
}
```

```
C:\Users\Admin\Documents\C Prog_SYCSE\Direct\LeapYear.exe
Enter Year : 7
7 is not leap year
--------------------------------
Process exited after 2.718 seconds with return value 0
Press any key to continue . . .
```

- Program 4 : implement switch case

```
#include<stdio.h>
int main(){
    int no;
    printf("Enter nummber between (1-3) : ");
    scanf("%d",&no);
    switch (no)
    {
        case 1:printf("One");
            break;
        case 2:printf("Two");
            break;
        case 3:printf("Three");
            break;
        default:printf("invalid choice");
            break;
    }
    return 0;}
```

```
C:\Users\Admin\Documents\C Prog_SYCSE\Direct\Switch.exe
Enter nummber between (1-3) : 2
Two
--------------------------------
Process exited after 3.638 seconds with return value 0
Press any key to continue . . .
```

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Practical NO 3:

- Program no 1: print 1 to n numbers

```
#include<stdio.h>
int main(){
   int no,i;
   printf("Enter nummber : ");
   scanf("%d",&no);

   for(i=1;i<=no;i++){
      printf("\n%d",i);
   }
   return 0;
}
```

```
C:\Users\Admin\Documents\C Prog_SYCSE\Direct\1toN.exe
Enter nummber : 7

1
2
3
4
5
6
7
--------------------------------
Process exited after 3.246 seconds with return value 0
Press any key to continue . . .
```

- Proogram 2: print first odd n numbers

```
#include<stdio.h>
int main(){
   int no,i;
   printf("Enter nummber : ");
```

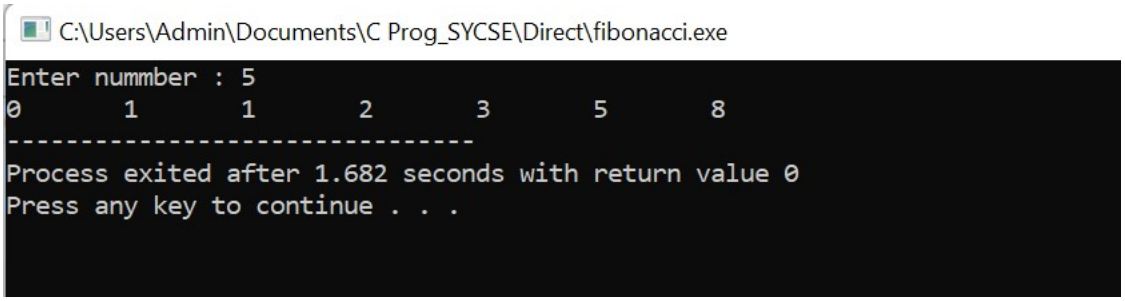
```
    scanf("%d",&no);

    for(i=1;i<=no;i++){
        if(i%2!=0){
            printf("\n%d",i);
        }
    }
    return 0;
}
```

```
C:\Users\Admin\Documents\C Prog_SYCSE\Direct\OddToN.exe
Enter nummber : 7

1
3
5
7
--------------------------------
Process exited after 3.93 seconds with return value 0
Press any key to continue . . .
```

- Program 3: Generate fibonacci series

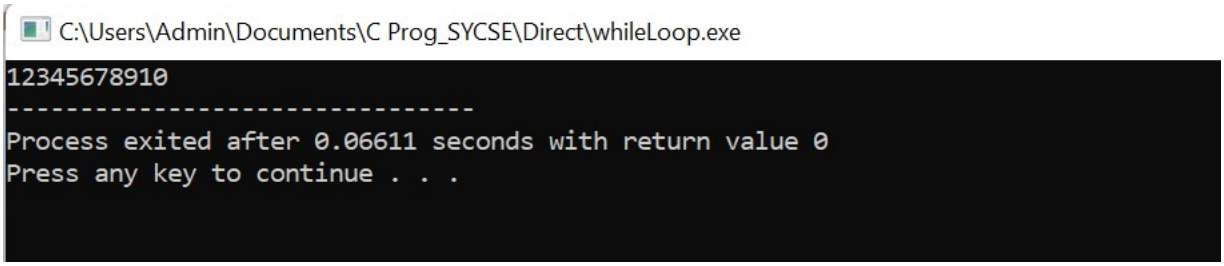
```
#include<stdio.h>
int main(){
    int no,i;
    int first=0;
    int second=1;
    int next=first+second;

    printf("Enter nummber : ");
    scanf("%d",&no);

    printf("%d\t%d",first,second);

    for(i=1;i<=no;i++){
        printf("\t%d",next);
        first=second;
        second=next;
        next=first+second;
```

```
    }
    return 0;
}
```



- Program 4 : implement do while loop

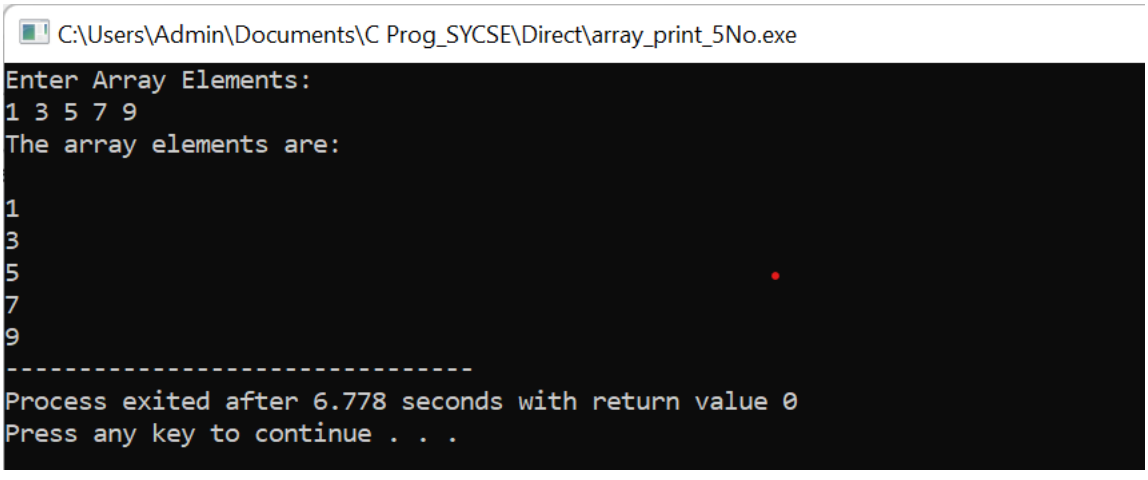
```
#include<stdio.h>
int main(){
    int no;
    int i=1;
    do{
        printf("%d",i);
        i++;
    }while (i!=11);
    return 0;
}
```



Practical No 4

- Program 1 : Write a program to print 5 elements into an array and print the elements of array

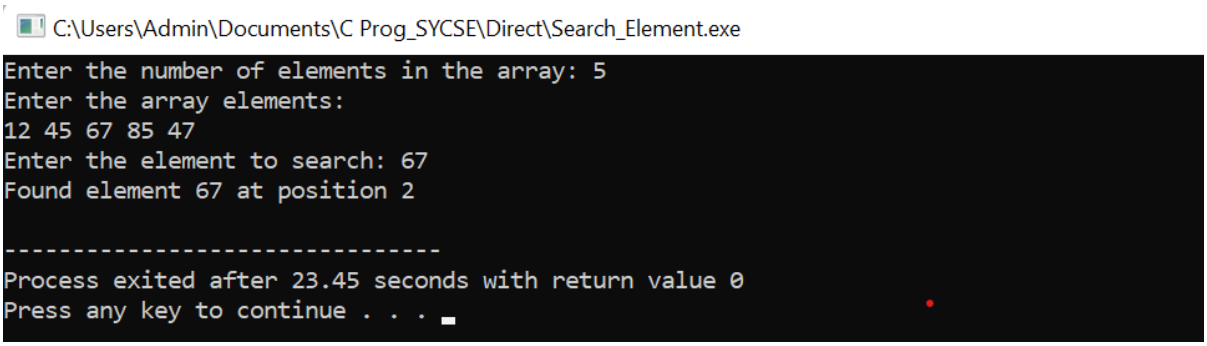
```
//Name : Rakesh Mahadev Bandi
//Class : SYCSE
//PRN No : 2024065738
#include <stdio.h>
#include <conio.h>

int main()
{
   int a[5],i;
   printf("Enter Array Elements: \n");
   for(i=0;i<5;i++)
   {
      scanf("%d", &a[i]);
   }
   printf("The array elements are: \n");
   for(i=0;i<5;i++)
   {
      printf("\n%d ", a[i]);
   }
   return 0;
}
```



- Program 2 : Write a program to search an element in array

```
//Name : Rakesh Mahadev Bandi
//Class : SYCSE
//PRN No : 2024065738
#include<stdio.h>
#include <conio.h>

int main()
{
   int n,i,j=0,item;
   printf("Enter the number of elements in the array: ");
   scanf("%d", &n);
   int a[n];
   printf("Enter the array elements:\n");
   for(i=0;i<n;i++)
   {
      printf("",i);
      scanf("%d", &a[i]);
   }
   printf("Enter the element to search: ");
   scanf("%d", &item);
   while(j < n)
   {
      if(a[j] == item)
      {
         break;
      }
      j = j + 1;
   }
   if(j < n)
   {
      printf("Found element %d at position %d\n", item, j);
   }
   else
   {
      printf("Element %d not found in the array\n", item);
   }
```

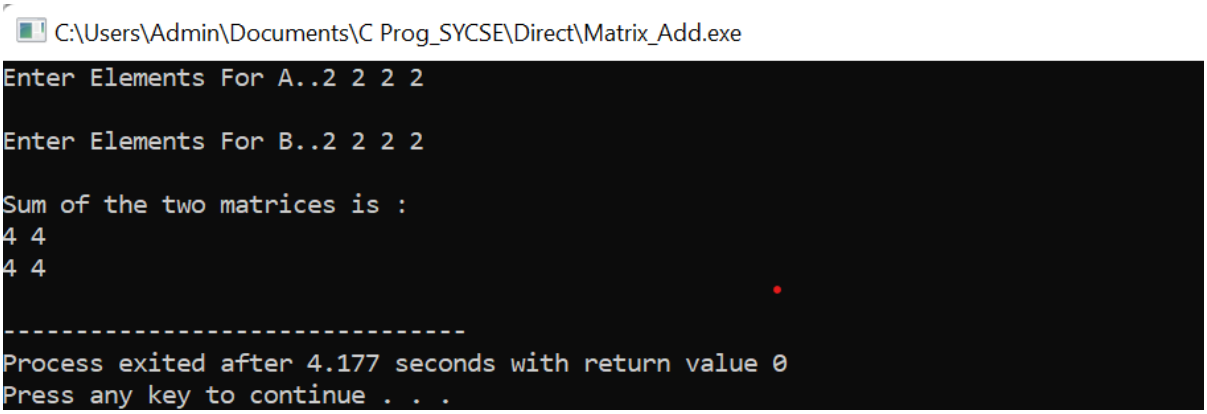
```
    return 0;
}
```



- Program 3 : Write a program to perform addition of all elements in array

```
//Name : Rakesh Mahadev Bandi
//Class : SYCSE
//PRN No : 2024065738
#include<stdio.h>
#include <conio.h>
int main()
{
   int a[2][2],b[2][2],c[2][2],i, j;

   printf("Enter Elements For A..");
   for(i = 0; i < 2; i++)
   {
      for(j = 0; j < 2; j++)
      {
         scanf("%d", &a[i][j]);
      }
   }

   printf("\nEnter Elements For B..");
   for(i = 0; i < 2; i++)
   {
      for(j = 0; j < 2; j++)
      {
         scanf("%d", &b[i][j]);
      }
```

```
    }

    printf("\nSum of the two matrices is :\n");

    for(i = 0; i < 2; i++)
    {
        for(j = 0; j < 2; j++)
        {
            c[i][j] = a[i][j] - b[i][j];
            printf("%d ", c[i][j]);
        }
        printf("\n");
    }
    return 0;
}
```



- Program 4 : Write a program to find the largest and smallest element in array

```
//Name : Rakesh Mahadev Bandi
//Class : SYCSE
//PRN No : 2024065738
#include<stdio.h>
#include<conio.h>

int main()
{
    int arr[100], n, i, small, large;
```

```
    printf("Enter the number of elements you want to insert: ");
    scanf("%d", &n);
    for(i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);
    }

    small = arr[0];
    large = arr[0];

    for(i = 1; i < n; i++)
    {
        if(arr[i] < small)
        {
            small = arr[i];
        }
        if(arr[i] > large)
        {
            large = arr[i];
        }
    }
    printf("\nLargest element is: %d\n", large);
    printf("\nSmallest element is: %d", small);

    return 0;
}
```

```
C:\Users\Admin\Documents\C Prog_SYCSE\Direct\Large_Small_Array.exe
Enter the number of elements you want to insert: 5
2 4 6 8 0

Largest element is: 8

Smallest element is: 0
--------------------------------
Process exited after 9.642 seconds with return value 0
Press any key to continue . . .
```