IT 161_LAB6

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Experiment 1(a)

Objective: Create C program to print stars sequence (Right angular)

Software: Online compiler and debugger for C.

Code:

```
#include <stdio.h>

int main()
{
   int i, nstar, nrow;

   printf("Enter number of rows of stars:: ");
   scanf("%d", &nrow);

   for(i=1; i<=nrow; i++)
   {
      for(nstar=1; nstar<=i; nstar++)
      {
         printf("*");
      }

            printf("\n");
   }

   return 0;
}
```

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main.c

```c
/*Name: Dipean Dasgupta Roll: 202151188
Lab 6 Experiment 1(a)
This c program displays code to print stars sequence in right angular triangle form*/
#include <stdio.h>

int main()
{
    int i, nstar, nrow;

    printf("Enter value of n: ");
    scanf("%d", &nrow);

    for(i=1; i<=nrow; i++)
    {
        for(nstar=1; nstar<=i; nstar++)
        {
            printf("*");
        }
            printf("\n");
    }
    return 0;
}
```

Result:

Sample:

Enter number of rows of stars:7

*

**

***

****

*****

******

****

input

```
Enter number of rows of stars: 7
*
**
***
****
*****
******
*******


...Program finished with exit code 0
Press ENTER to exit console.
```

Experiment 1(b)

Objective: Create C program to print stars sequence
(Isoceles triangle format)
Software: Online compiler and debugger for C.

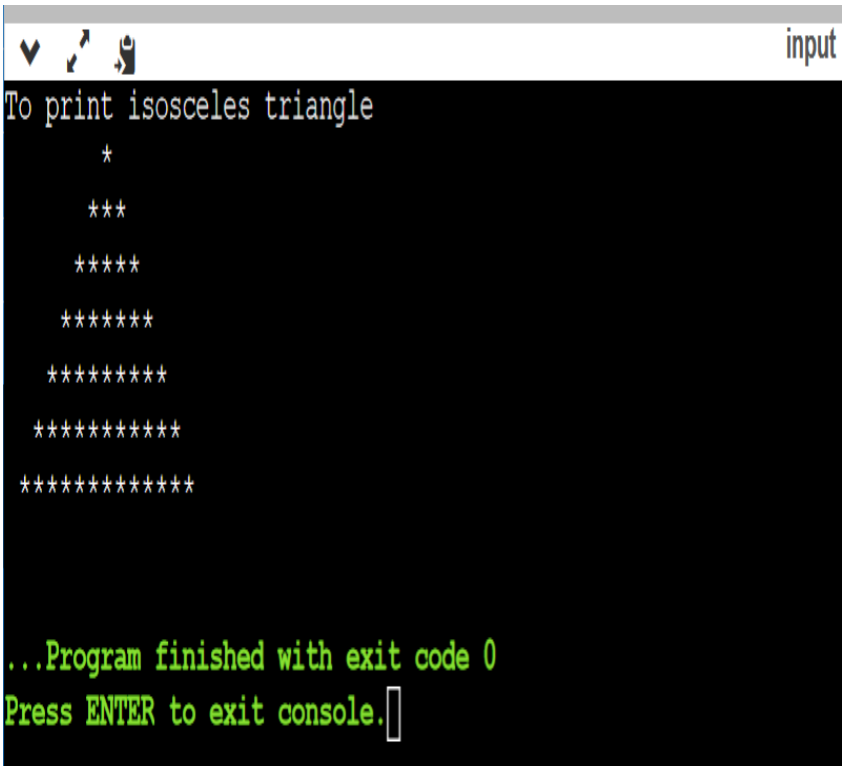
Code:

```
#include<stdio.h>
int main(){
  printf("To print isosceles triangle\n");
  int a=7, nr, ns,k ;

  for(nr=0 ; nr<a ;nr++){
    for(ns=a ;ns>nr ;ns--){
      printf(" ");
    }
    for(k=0;k<=2*nr;k++){
      printf("*");
    }
    printf("\n");
  }
return 0;
}
```

Result:

```
*
***
*****
*******
*********
***********
```


input
To print isosceles triangle
*
***
*****
****
****
****
****
...Program finished with exit code 0
Press ENTER to exit console.

Experiment 2

Objective:- Program to print Fibonacci series up to 100

Software:- Online GDB is an online compiler and debugger tool for C/C++ languages.

Code:-

```
#include <stdio.h>
int main(){
   int a = 0 , b = 1 , nt=0  ;
   printf("%d\n%d\n",a,b);
   nt=a+b;
   while(nt<=100){
      printf("%d\n",nt);
      a=b;
      b=nt;
      nt=a+b;
   }
   return 0;
}
```

Result:

To print fibonacci series upto 100

0
1
1
1
2
3
5
8
13
21
34
55
89