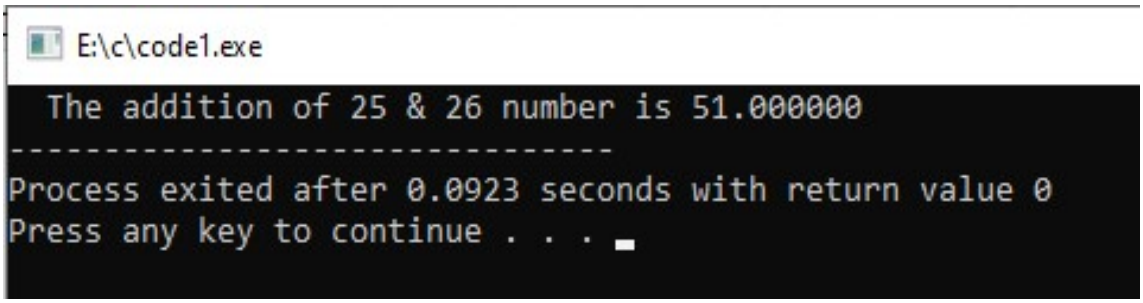
Problem:1- Write a program to calculate Addition of Two numbers.

Code:-

```
#include <stdio.h>
int main(){
   int a = 25.5;
   int b = 26.32;
   float c = a + b ;
   printf("the addition of %d & %d number is %f",a,b,c);
   return 0;
}
```

Output:-

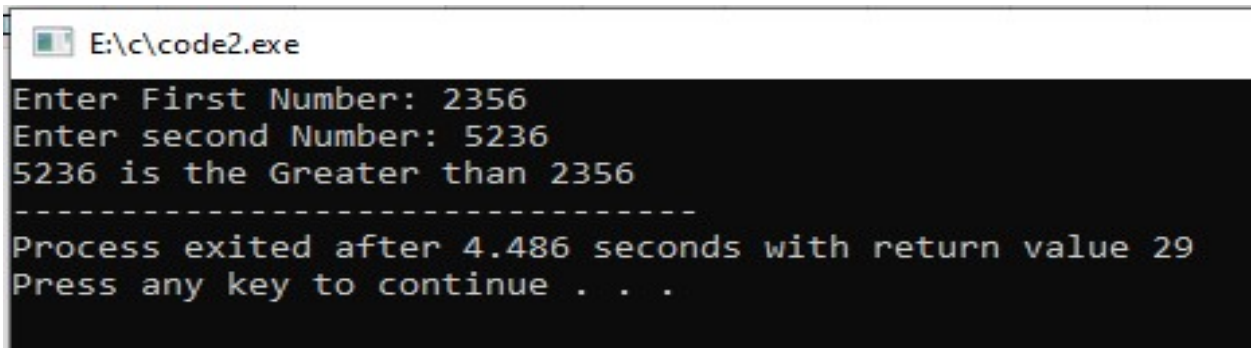


Problem:2-Write a program for finding number among two numbers.

Code:-

```
#include <stdio.h>
int main(){
   int a,b;
   printf("Enter First Number: ");
   scanf("%d",&a);
   printf("Enter second Number: ");
   scanf("%d",&b);
   if(a>b){
      printf("%d is the greater than %d",a,b);
   }
   else{
      printf("%d is the Greater than %d",b,a);
   }
}
```

Output:-

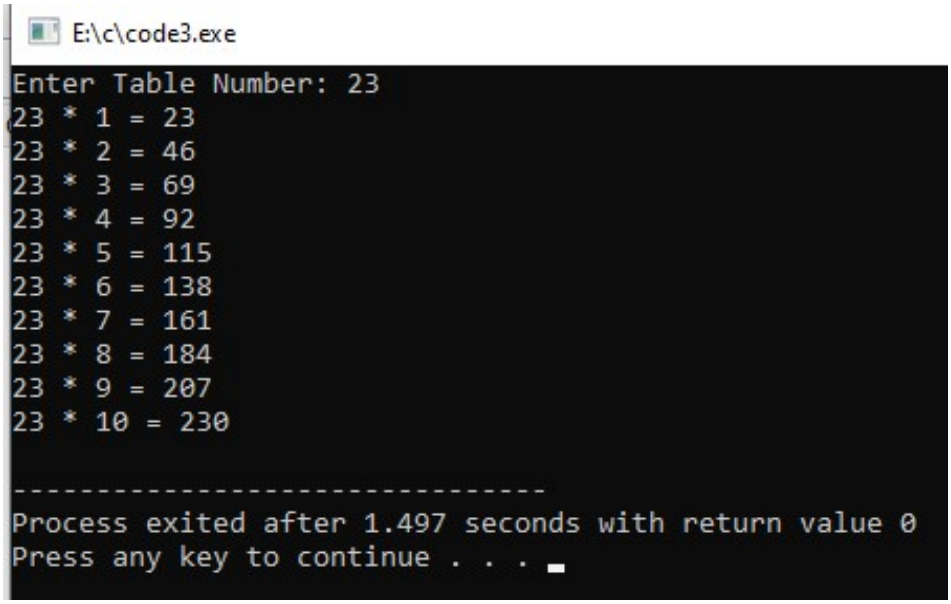


Problem:3-Write a program for printing of table with given by user.

Code:-

```
#include <stdio.h>
int main(){
   int i,table,result;
   printf("Enter Table Number: ");
   scanf("%d",&table);
   for(i=1;i<=10;i++){
      result = i*table;
      printf("%d * %d = %d\n",table,i,result);
   }
   return 0;
}
```

Output:-

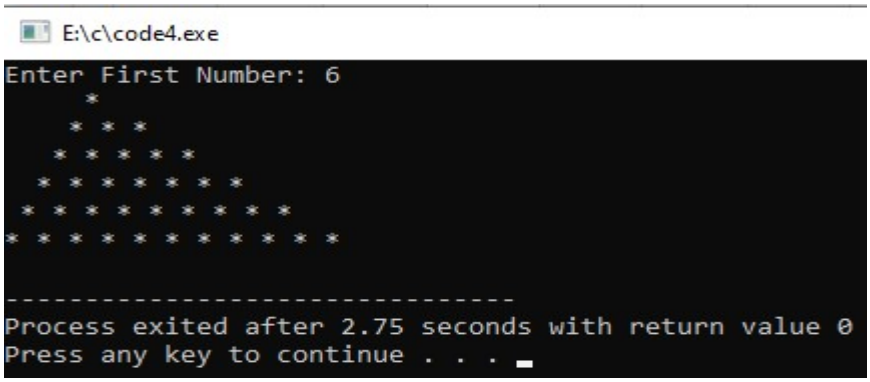


Problem:4-Write a program to print * in the pattern pyramid.

Code:-

```
#include <stdio.h>
int main(){
   int i , space ,rows ,k=0;
   printf("Enter First Number: ");
   scanf("%d",&rows);
   for(i=1;  I <=rows ;++i,k=0){
      for(space = 1; space<=rows-i;++space){
         printf(" ");
      }
      while (k != 2 * i-1)
      {  printf("* ");
          k++;
         }
      printf("\n");
   }
}
```

Output:-

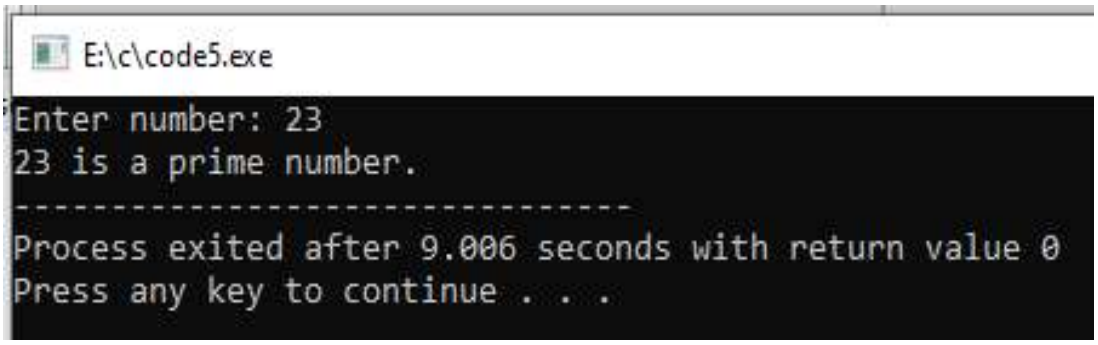


Problem:5-Write a program to check given no. prime or not.

Code:-

```
#include <stdio.h>
        int main(){
        int num,loop,prime=1;
        printf("Enter number: ");
        scanf("%d",&num);
        for(loop=2;loop<num; loop++){
                if((num%loop)==0){
                        prime=0;}
        }
        if(prime==1){
                printf("%d is a prime number.",num);
        }
        else{
                printf("%d is not a prime number",num);
        }
}
```

Output:-

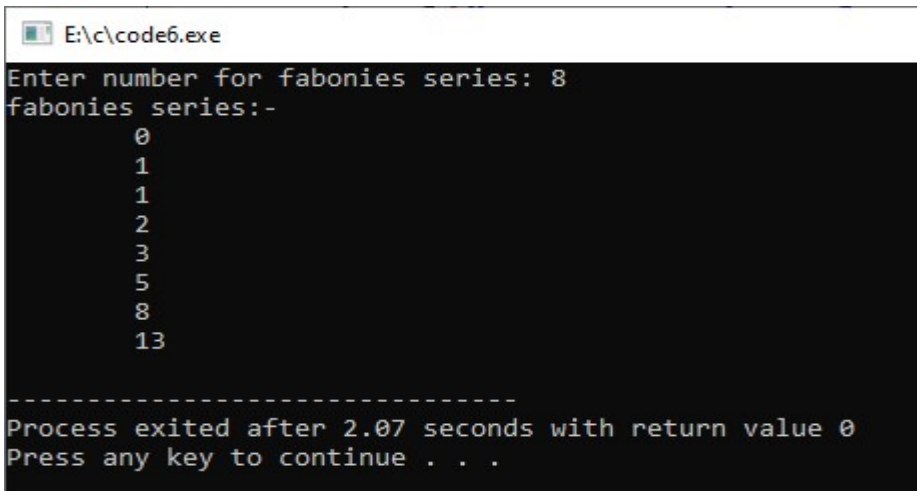


Problem:6-Write a program to Generate a Fibonacci Series.

Code:-

```
#include<stdio.h>
int main(){
        int i,num1=0,num2=1,num3,fibo;
        printf("Enter number for fabonies series: ");
        scanf("%d",&fibo);
        printf("fabonies series:-\n");
        printf("\t%d \n \t%d\n",num1,num2);
        for(i=2;i<=fibo-1;i++){
                num3 = num1 + num2;
                printf("\t%d\n",num3);
                num1= num2;
                num2 = num3;
        }
}
```

Output:-



Problem:7- Write a program to Calculate area of givin shapes.

1.Circle ,**2.** Triangle, **3**.Reactangle **4.** Square using switch case.

Code:-

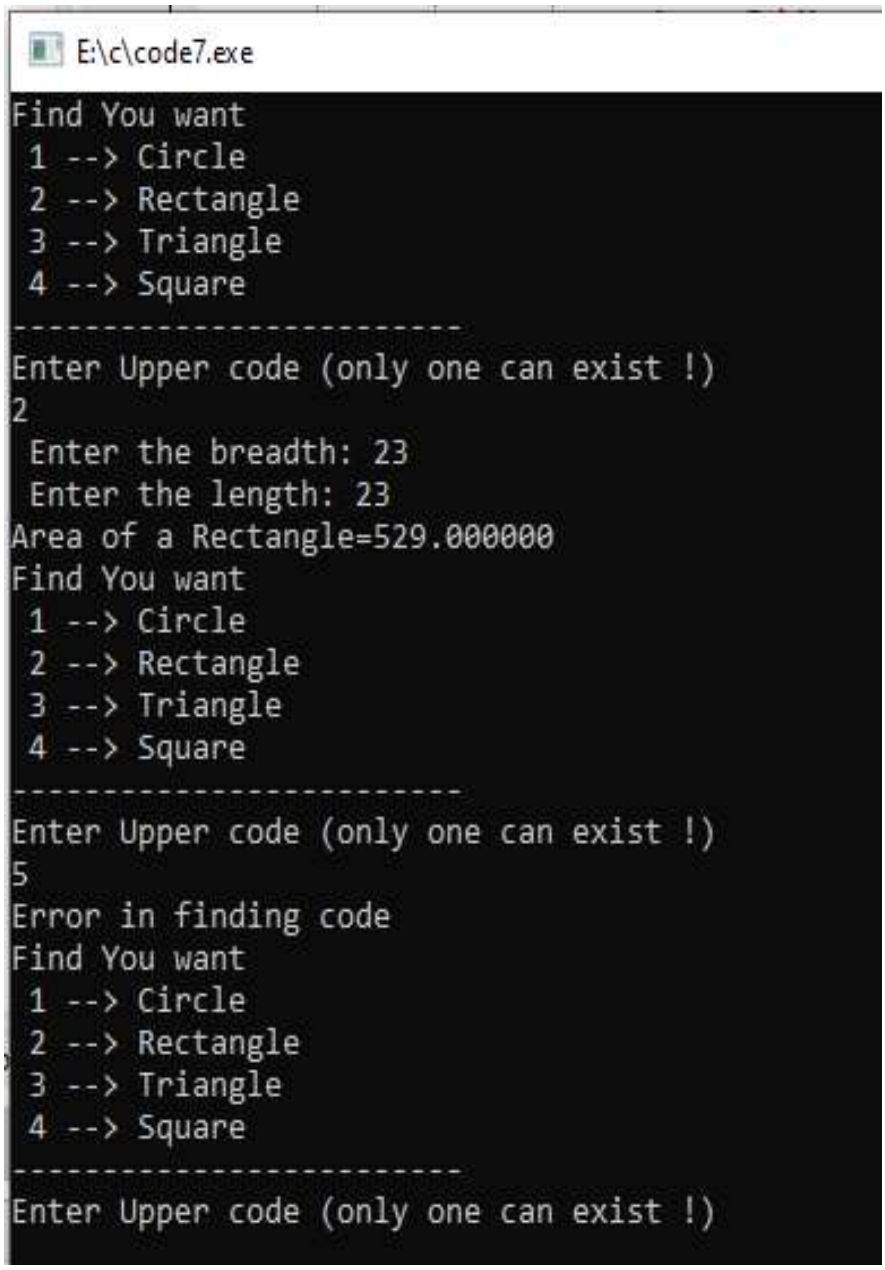
```
#include <stdio.h>
void main(){
        int i;
        for(i=1;i<=4;i++){
          int code;
          float side, base, length, breadth, height, area, radius;
          printf("Find You want \n");
          printf(" 1 --> Circle\n");
          printf(" 2 --> Rectangle\n");
          printf(" 3 --> Triangle\n");
          printf(" 4 --> Square\n");
          printf("------------------------\n");
          printf("Enter Upper code (only one can exist !)\n");
          scanf("%d", &code);

          switch(code){
            case 1:
              printf(" Enter the radius: ");
              scanf("%f",&radius);
              area=3.142*radius*radius;
              printf("Area of a circle=%f", area);
```

```
  break;
case 2:
  printf(" Enter the breadth: ");
  scanf("%f",&breadth);
     printf(" Enter the length: ");
  scanf("%f",&length);
  area=breadth *length;
  printf("Area of a Rectangle=%f\n", area);
  break;
case 3:
   printf(" Enter the base and height\n");
   scanf("%f %f", &base, &height);
   area=0.5 *base*height;
   printf("Area of a Triangle=%f\n", area);
   break;
case 4:
   printf(" Enter the side: ");
   printf(" Enter the length: ");
   scanf("%f", &side);
   area=side * side;
   printf("Area of a Square=%f\n", area);
   break;
default:
printf("Error in finding code\n");
break;
```

```
        }
    }
}
```

Output:-

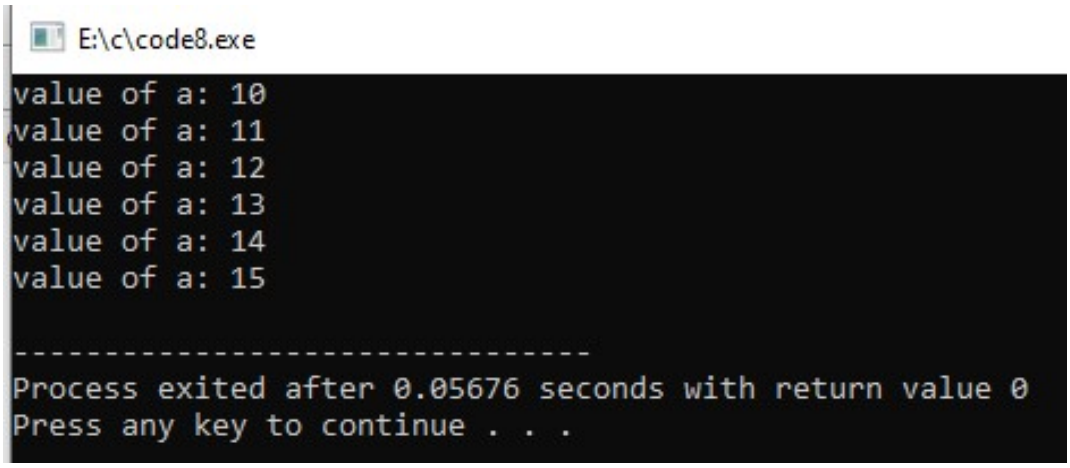

E:\c\code7.exe
Find You want
1 --> Circle
2 --> Rectangle
3 --> Triangle
4 --> Square
Enter Upper code (only one can exist !)
2
Enter the breadth: 23
Enter the length: 23
Area of a Rectangle=529.000000
Find You want
1 --> Circle
2 --> Rectangle
3 --> Triangle
4 --> Square
Enter Upper code (only one can exist !)
5
Error in finding code
Find You want
1 --> Circle
2 --> Rectangle
3 --> Triangle
4 --> Square
Enter Upper code (only one can exist !)

Problem:8-Write a program to special construct using break.

Code:-

```
#include <stdio.h>
int main () {
   int a = 10;
   while( a < 20 ) {
      printf("value of a: %d\n", a);
      a++;
      if( a > 15) {
         break;
      }
   }
   return 0;
}
```

Output:-



Problem:9- Write a program to special construct using Continue.

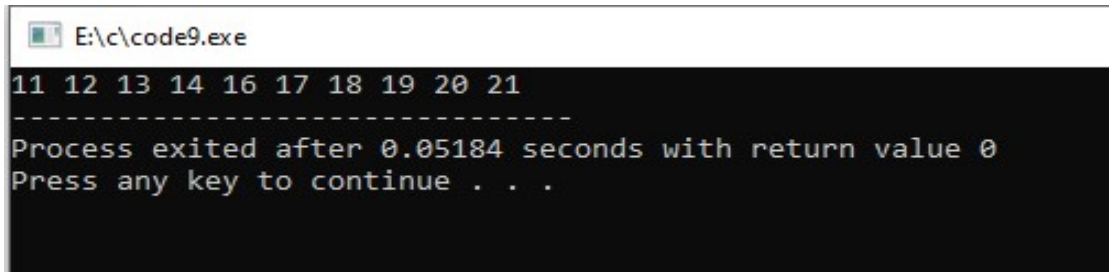
Code:

```
#include <stdio.h>


int main() {
   int i;
         for (i = 11; i <= 21; i++) {
      if (i == 15)
         continue;


      else
         // otherwise print the value of i
         printf("%d ", i);
   }
   return 0;
}
```

Output:-

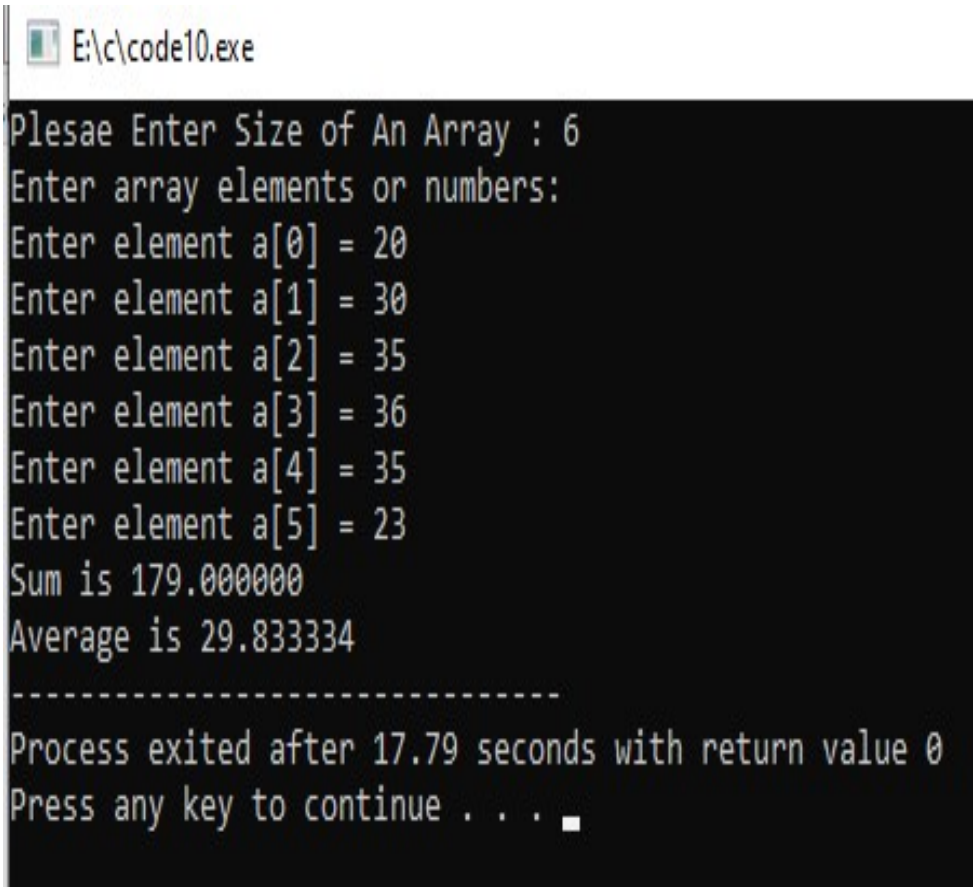


Problem:10-Write a program for finding sum & average of array element.

Code:-

```
#include<stdio.h>
int main()
{
 float a[100], sum=0, avg;
 int i, n;
 printf("Plesae Enter Size of An Array : ");
 scanf("%d", &n);
 printf("Enter array elements or numbers:\n");
 for(i=0; i< n; i++)
 {
  printf("Enter element a[%d] = ", i);
  scanf("%f", &a[i]);
 }
  for(i=0; i< n; i++)
 {
  sum = sum + a[i];
 }
  avg = sum/n;
 printf("Sum is %f\n", sum);
 printf("Average is %f", avg);
}
```

Output:-


E:\c\code10.exe
Plesae Enter Size of An Array : 6
Enter array elements or numbers:
Enter element a[0] = 20
Enter element a[1] = 30
Enter element a[2] = 35
Enter element a[3] = 36
Enter element a[4] = 35
Enter element a[5] = 23
Sum is 179.000000
Average is 29.833334

Process exited after 17.79 seconds with return value 0
Press any key to continue . . .