51. Triangle with only border

```
#include<stdio.h>
#include<conio.h>
void drawTriangle(char border, char filler, int length)
  int start = 2;
  int base = 4;
  int i, sp, j, b;
  for (i = start; i <= length; i++)
     for (sp = 0; sp \le length - i; sp++)
    {
       printf(" ");
     if (i > start)
       printf("%c ", border);
    }
     if (i > start)
       for (b = base; b <= i; b++)
         printf("%c ", filler);
     printf("%c \n", border);
  }
  for (j = base; j < length + base; j++)
     printf("%c ", border);
  printf("\n");
void main()
  int length = 6;
  clrscr();
  drawTriangle('*', ' ', length);
  getch();
```

52. Program to accept number and print it's factorial.

```
#include<stdio.h>
#include<conio.h>

void main()
{
    int i, fact=1, n;
    clrscr();
    printf("Enter number : ");
    scanf("%d", &n);

    for(i=1; i<=n; i++)
    {
        fact = fact*i;
    }
    printf("Factorial is: %d", fact);
    getch();
}</pre>
```

53. Program to accept number and print if it is prime number or not.

```
#include<stdio.h>
#include<conio.h>
void main()
int i, n;
clrscr();
printf("Enter number : ");
scanf("%d", &n);
for(i=2; i<=n/2; i++)
  {
    if(n%i==0)
      printf("Number is not Prime");
      getch();
      break;
    }
  }
  printf("Number is Prime");
  getch();
```

54. Program to print 'n' prime numbers.

```
#include<stdio.h>
#include<conio.h>
#include<process.h>
void main()
int i, j, flag=1, n;
clrscr();
printf("Enter number : ");
scanf("%d", &n);
for(i=2; i<=n; i++)
{
  flag=1;
  for(j=2; j<=i/2; j++)
    if(i%j==0)
    {
      flag=0;
       break;
    }
  }
  if(flag==1)
  printf("%d\n", i);
getch();
55. Program to accept a number and print Fibonacci sequence.
#include<stdio.h>
#include<conio.h>
void main()
int pre=1, cur=1, temp, i, n;
//pre means previous number
//cur means current number
clrscr();
printf("Enter number : ");
scanf("%d", &n);
printf("%d\t%d", pre, cur);
for(i=3; i<=n; i++)
  temp = cur;
  cur = pre + cur;
  pre = temp;
  printf("\t%d", cur);
```

}

```
getch();
56. Add 'n' numbers.
#include<stdio.h>
#include<conio.h>
void main()
 int n, sum=0, i, value;
 clrscr();
 printf("Enter total numbers you want to add : ");
 scanf("%d", &n);
 for (i=1; i<=n; i++)
   printf("Enter number %d : ", i);
   scanf("%d", &value);
   sum = sum + value;
 }
 printf("Sum of entered numbers : %d", sum);
 getch();
57. Add 'n' numbers using array.
#include<stdio.h>
#include<conio.h>
void main()
{
  int n, sum = 0, i, array[100];
  printf("Enter total numbers you want to add : ");
  scanf("%d", &n);
  for (i = 1; i <= n; i++)
    printf("Enter number %d : ", i);
    scanf("%d", &array[i]);
    sum = sum + array[i];
  printf("Sum : %d\n", sum);
  getch();
}
```

58. Program to accept a number and add the digits of that number.

```
#include<stdio.h>
#include<conio.h>
void main()
int n, sum = 0, remainder;
clrscr();
printf("Enter the number : ");
scanf("%d", &n);
while (n != 0)
{
 remainder = n % 10;
 sum = sum + remainder;
 n = n / 10;
printf("Sum of digits of entered number : %d", sum);
getch();
}
59. Program to accept a number and add the digits of that number using recursion.
#include<stdio.h>
#include<conio.h>
int add_digits(int);
void main()
  int n, result;
  clrscr();
  printf("Enter a number : ");
  scanf("%d", &n);
  result = add_digits(n);
  printf("Sum : %d", result);
  getch();
}
int add_digits(int n)
  static int sum = 0;
  if (n == 0)
    return 0;
```

```
sum = n % 10 + add_digits(n / 10);
  return sum;
}
60. Average of numbers.
#include<stdio.h>
#include<conio.h>
void main()
  int n, i;
  float sum=0, x, avg;
  clrscr();
  printf("Enter total Numbers : ");
  scanf("%d", &n);
  for (i = 1; i <= n; i++)
    printf("\nNumber %d : ", i );
    scanf("%f", &x);
    sum += x;
  }
  avg = sum / n;
  printf("\nThe Average is : %0.2f", avg);
  getch();
}
```

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