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display the sum of first 10 natural number (using for loop)
#include (stdio.h)
int main()
     int i=0, sum;
     printf("sum of first 10 natural number:");
     for(i=1;i(=10;i++)
         sum=sum+i;
         printf("%d",i);
     printf("\nThe sum is:%d\n",sum);
    return 0;
}
display the multiplication table of a given integer (using while loop)
#include(stdio,h)
int main()
{
     int num, count = 1;
     printf("Enter a number\n");
    scanf("%d", &num);
     printf("\nMultiplication table for %d is:\n\n", num);
    while(count <= 10)</pre>
         printf("%d \times %d = %d\n", num, count, (num*count));
         count++;
    return 0;
}
OUTPUT:
Enter a number
Multiplication table for 2 is:
2 \times 1 = 2
2 \times 2 = 4
2 \times 3 = 6
2 \times 4 = 8
2 \times 5 = 10
2 \times 6 = 12
2 \times 7 = 14
2 \times 8 = 16
2 \times 9 = 18
2 \times 10 = 20
```

```
display the n terms of odd natural number and their sum(Using do,,,while loop)
#include(stdio,h)
void main()
    int num,i,sum=0;
    printf("enter the number\n");
    scanf("%d",&num);
    i=0;
    do
    {
         if((i\%2)==0)
         i++;
         else
         {
             sum=sum+i;
             i++;
    }
    while(i<=num);</pre>
        printf("sum of odd numbers %d",sum);
  }
OUTPUT:
enter the number
23
sum of odd numbers 144
4, display the pattern like right angle triangle (using for loop)
***
#include(stdio,h)
void main()
{
    int i, j, rows;
    printf("enter the no of row:");
    scanf("%d", &rows);
    for(i=1; i \le rows; i++)
         for (j=1; j(=i; j++)
             printf("*");
         printf("\n");
```

}

**OUTPUT:** 

enter the no of row:4

}

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9, check whether a given number is a perfect number or not, (Using while Loop)
#include(stdio,h)
int main()
    int num, count = 1, sum = 0;
    printf("Enter a number\n");
    scanf("%d", &num);
    while(count < num)
        if(num%count == 0)
             sum = sum + count;
        count++;
    }
    if(sum == num)
        printf("\n%d is a perfect number\n", num);
    }
    else
        printf("\n%d is not a perfect number\n", num);
    return 0;
}
OUTPUT:
Enter a number
9 is not a perfect number
display the sum of series [9+99+999+9999...](using for loop)
#include (stdio,h)
void main()
{ long int n,i,t=9;
    int sum =0;
    printf("Input the number or terms :");
    scanf("%ld",&n);
    for (i=1;i(=n;i++)
    \{ sum +=t;
                    ",t);
      printf("%ld
      t=t*10+9;
    printf("\nThe sum of the series = %d \n",sum);
}
OUTPUT
Input the number or terms :5
9 99 999 9999 99999
The sum of the series = 111105
```