

Num 1 :

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

```
void main()
```

```
{
```

```
    int i,num,odd_sum=0,even_sum=0;
```

```
    printf("Enter the value of num\n");
```

```
    scanf("%d",&num);
```

```
    for (i= 1;i<=num;i++)
```

```
    {
```

```
        if(i%2 ==0)
```

```
            even_sum=even_sum+i;
```

```
        else
```

```
            odd_sum=odd_sum+i;
```

```
    }
```

```
    printf("Sum of all odd numbers = %d\n",odd_sum);
```

```
    printf("Sum of all even numbers = %d\n",even_sum);
```

```
    return 0;
```

```
}
```

Num 2:

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

```
#include <string.h>
```

```
int main()
```

```
{
```

```
    char string[] ="hello world";
```

```
int count=0;
```

```
for(int i=0;i<strlen(string);i++)
```

```
{  
    if(string[i] != ' ')  
        count++;  
}
```

```
printf("Total number of characters in a string: %d",count);
```

```
return 0;
```

```
}
```

Num 3:

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

```
#include <string.h>
```

```
int main()
```

```
{  
    char string[] ="hello world";  
    int count=0;
```

```
for(int i=0;i<strlen(string);i++)
```

```
{  
    if(string[i] != ' ')  
        count++;  
}
```

```
printf("Total number of characters in a string: %d",count);
```

```
return 0;
```

```
}
```

Num 4:

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

```
int main()
```

```
{
```

```
int first,second,Addition,multiplication;
```

```
printf("Enter the 1st number : ");
```

```
scanf("%d",&first);
```

```
printf("Enter the 2nd number : ");
```

```
scanf("%d",&second);
```

```
Addition=(first+second);
```

```
printf("The Addition is: %d \n",Addition);
```

```
multiplication=(first*second);
```

```
printf("The Multiplication is: %d \n",multiplication);
```

```
return 0;
```

```
}
```

Num 5 :

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

```
int main()
```

```
{  
    int marks;  
    printf("Enter your marks ");  
    scanf("%d",&marks);  
    if(marks<0 || marks>100)  
    {  
        printf("Wrong Entry");  
    }  
    else if(marks>0 && marks<39)  
    {  
        printf("Grade F : Fail ");  
    }  
    else if(marks>=40 && marks<44)  
    {  
        printf("Grade c- : Pass ");  
    }  
    else if(marks>=45 && marks<49)  
    {  
        printf("Grade C : Below Average ");  
    }  
    else if(marks>=50 && marks<54)  
    {  
        printf("Grade c+ : Average ");  
    }  
    else if(marks>=55 && marks<59)  
    {  
        printf("Grade B- : Above Average ");  
    }  
}
```

```

    }
    else if(marks>=60&& marks<64)
    {
        printf("Grade B : Satisfactory ");
    }
    else if(marks>=65 && marks<69)
    {
        printf("Grade B+ : Good ");
    }
    else if(marks>=70 && marks<74)
    {
        printf("Grade A- : Very Good ");
    }
    else if(marks>=75 && marks<79)
    {
        printf("Grade A :Excellent ");
    }
    else
    {
        printf("Grade A+ : Outstanding ");
    }
}

```

Num 6 :

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

```
int main()
```

```
{
```

```

int i,n,sum=0,numbers;

printf("Enter any number:");
scanf("%d",&n);

for(i=0; i<n; i++)
{
    scanf("%d",&numbers);
    sum=sum+numbers;
}
printf("\nSum:%d\n\n",sum);

}

```

Num 7:

```

#include <stdio.h>

int main()
{
    int n, i;

    printf("Enter an integer: ");
    scanf("%d", &n);

    for (i = 1; i <= 10; ++i) {
        printf("%d * %d = %d \n", n, i, n * i);
    }

    return 0;
}

```

Num 8:

```

#include <stdio.h>

```

```

int main() {
    int n, i, flag = 0;
    printf("Enter a positive integer: ");
    scanf("%d", &n);
    for (i = 2; i < n / 2; ++i)
    {

        if (n % i == 0) {
            flag = 1;
            break;
        }
    }
    if (n == 1) {
        printf("1 is neither prime nor composite.");
    }
    else {
        if (flag == 0)
            printf("%d is a prime number.", n);
        else
            printf("%d is not a prime number.", n);
    }
    return 0;
}

```

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

```
int main()
```

```
{
```

```
    int i, j, row;
```

num :9

```
printf("Enter number of row: ");
```

```
scanf("%d", &row);
```

```
for (i=1; i<=row; ++i)
```

```
{
```

```
for (j=1; j<=i; ++j)
```

```
{
```

```
printf("* ");
```

```
}
```

```
printf("\n");
```

```
}
```

```
return 0;
```

```
}
```

Num:10

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

```
#include <string.h>
```

```
void main()
```

```
{
```

```
char s[200];
```

```
int count = 0, i;
```

```
printf("Enter the string:\n");
```

```
scanf("%[^\n]s", s);
```

```
for (i = 0; s[i] != '\0'; i++)
```



```

{
    if (s[i] == ' ' && s[i+1] != ' ')
        count++;
}

printf("Number of words in given string are: %d\n", count + 1);

return 0;
}

```

Num:11

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

```
#include <string.h>
```

```
void ISPalindrome(char str[])
```

```

{

    int l = 0;
    int h = strlen(str) - 1;

    while (h > l)
    {
        if (str[l++] != str[h--])
        {
            printf("\n%s is Not Palindrome", str);
            return;
        }
    }

    printf("\n%s is palindrome", str);
}

```

```
int main()
{
    ISPalindrome("mom");

    ISPalindrome("mammi");

    return 0;
}
```

Num :12

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

```
#include <string.h>
```

```
int main()
{
    char string[] ="hello world";
    int count=0;

    for(int i=0;i<strlen(string);i++)

    {
        if(string[i] != ' ')
            count++;
    }
```

```
printf("Total number of characters in a string: %d",count);
```

```
        return 0;
    }
    Num:13
#include <stdio.h>

void main()
{
    int i,num,odd_sum=0,even_sum=0;

    printf("Enter the value of num\n");
    scanf("%d",&num);

    for (i= 1;i<=num;i++)
    {
        if(i%2 ==0)
            even_sum=even_sum+i;
        else
            odd_sum=odd_sum+i;
    }
    printf("Sum of all odd numbers = %d\n",odd_sum);
    printf("Sum of all even numbers = %d\n",even_sum);

    return 0;
}
```