

**Course Name:** O Level (2nd Sem B2 and B3 Batch)**Subject:** C Language**Topic:** Function in C (Call by Value)**Date:** 08-April-2020**Example 1:** Write a function to input the radius of circle and find the area of circle.

```
#include<stdio.h>
#include<conio.h>
float aoc (float);
void main()
{
float r,area;
clrscr();
printf("enter the radius");
scanf("%f",&r);
area=aoc(r);
printf("\nArea of Circle is = %f",area);
getch();
}
float aoc (float x)
{
float i;
i=3.14*x*x;
return(i);
}
```

**Example 2:** Write a function to input any digit number and print sum of its digits.

```
#include<stdio.h>
#include<conio.h>
int sod (int);
void main()
{
int x,y;
clrscr();
printf("enter any digit number");
scanf("%d",&x);
y=sod(x);
printf("\nSum of digit = %d",y);
getch();
}
int sod (int z)
{
int i;
for(i=0;z!=0;z/=10)
i=i+(z%10);
return(i);
}
```

**Example 3:** Write a function to input any digit number and check the numbers palindrome or not.

```
#include<stdio.h>
#include<conio.h>
int poli (int);
void main()
{
```

```

int x,y;
clrscr();
printf("enter any digit number");
scanf("%d",&x);
y=poli(x);
y==x ? printf("Palindrome"):printf("Not Palindrome");
getch();
}
int poli (int z)
{
int i;
for(i=0;z!=0;z/=10)
i=i*10+(z% 10);
return(i);
}

```

**Example 4:** Write a function to input any number and check the number is prime or not.

```

#include <stdio.h>
#include<conio.h>
int prime (int);
main()
{
int x,y;
clrscr();
printf("enter any number");
scanf("%d",&x);
y=prime(x);
y==1? printf("Prime No.") : printf("Not Prime Number");
getch();
}
int prime (int z)
{
int i=2;
if(z==1 || z==2)
return(1);
else
while(i<z)
{
if(z%i==0)
return(0);
else
i++;
}
if(i==z)
return(1);
}

```

**Try Yourself:**

1. Write a function to input the radius of circle and find the circumference of circle.
2. Write a function to input any digit number and print sum of square of its digits.
3. Write a function to input any digit number and check the numbers Armstrong or not.
4. Write a function to input any digit number and print reverse of its digit.