

Course Name: O Level (2nd Sem B2 and B3 Batch)**Subject:** C Language**Topic:** Function in C (Call by reference) Contd....**Date:** 16-April-2020**Example 1:** Write a user defined 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 user defined 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,z;
clrscr();
printf("enter any digit number");
scanf("%d",&x);
z=x;
y=poli(&x);
y==z ? printf("Palindrome"):printf("Not Palindrome");
getch();
}
int poli (int *j)
{
int i;
for(i=0;*j!=0;(*j)/=10)
i=i*10+((*j)%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 user defined function to input the radius of circle and find the circumference of circle.
2. Write a user defined function to input any digit number and print sum of square of its digits.
3. Write a user defined function to input any digit number and check the numbers Armstrong or not.
4. Write a user defined function to input any digit number and print reverse of its digit.