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## PRACTICAL - 4

Write a program to print area of square using function.

```
#include <stdio.h>
void carea()
  float r=7;
  float a;
  a=3.14*r*r;
  printf("Area of Circle=%f",a);
int main()
  carea();
  return 0;
```

#### OUTPUT:

Area of Circle=153.860001

Write a program using recursive function.

```
/*Program to find the factorial of a number using recursive function.*/
#include <stdio.h>
int fact (int num);
int main()
    int num;
    printf("Enter a positive integer: ");
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   scanf("%d", &num);
    printf("Factorial of %d = %d", num, fact(num));
   return 0;
int fact (int num)
   if (num >= 1)
return num* fact (num-1);
```

```
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```

```
else return 1;
```

### OUTPUT:

```
Enter a positive integer: 3
Factorial of 3 = 6
```

c) Write a program to square root, abs() value using function.

```
#include <stdio.h>
#include <math.h>
int main()
{
    int num, a;
    printf("Please enter a number : \n");
    scanf("%d", &num);
    a = abs(num);
    printf("Calculated absolute value is : %d\n", a);
    a = sqrt(num);
    printf("Calculated Squareroot value is : %d\n", a);
    return 0;
}
```

#### OUTPUT:

Please enter a number:

4.5

Calculated absolute value is: 4

Calculated Squareroot value is: 2

d) Write a program using goto statement.

```
#include <stdio.h>
int main()
{
  int n;
  for (;;)
```

/\* infinite loop \*/

```
printf("Enter any number:");
scanf("%d",&n);
if (n == 5)
goto ap; /* use of goto statement*/
if (n % 2 == 0)
continue; /* use of continue statement */
if (n % 3 == 0)
break; /* use of break statement */
printf("Inside loop");
}
ap:
printf("Outside loop");
return 0;
```

# OUTPUT:

Enter any number: 2

Enter any number: 3

Outside loop

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