

(1)

```
#include<stdio.h>

int add(float r);

int main()
{
    float r,area;

    printf("Enter the radius of circle\n");

    scanf("%f",&r);

    area = add(r);

    printf("Area of circle =%f\n",area);

    return 0;
}

int add(float r)
{
    return (3.14*r*r);
}
```

(2)

```
#include<stdio.h>

int add(int,int);

int main()
{
    int x,y,interest;

    printf("Enter the Amount and percentage\n",x,y);

    scanf("%d %d",&x,&y);

    interest = add(x,y);

    printf("Interest = %d",interest);

    return 0;
}

int add(int x,int y)
```

```
{  
    return (x*y/100);  
}
```

(3)

```
#include<stdio.h>  
  
int add(int);  
  
int main()  
{  
    int x,check;  
    printf("Enter the number\n");  
    scanf("%d",&x);  
    check=add(x);  
    {  
        if(x%2==0)  
            printf("1");  
        else  
            printf("0");  
    }  
    return 0;  
}  
  
int add(int x)  
{  
    return (1);  
}
```

(4)

```
#include<stdio.h>  
  
int n,x,i;  
  
void add(int n,int x);
```

```
int main()
{
int i,n;
    add(n,x);
return 0;
}
```

```
void add(int n,int x)
{
    printf("Enter a number\n");
    scanf("%d",&n);
    printf("The first %d natural numbers are:\n",n);
for(i=1;i<=n;i++)
    printf(" %d ",i);
}
```

(5)

```
#include<stdio.h>

int n,x,i;
void add(int n,int x);
```

```
int main()
{
int i,n;
    add(n,x);
return 0;
}
```

```
void add(int n,int x)
{
```

```
printf("Enter a number\n");
scanf("%d",&n);
printf("Odd natural numbers till %d are:\n",n);
for(i=1;i<=n;i++)
{
    if(i%2!=0)
        printf("%d",i);
    else
        printf(" ");
}
}
```

(6)

```
#include<stdio.h>
int fact(int n)
{
    int i,f=1;
    for(i=1;i<=n;i++)
        f=f*i;
    return f;
}
int main()
{
    int n,f;
    printf("Enter a number\n");
    scanf("%d",&n);
    f=fact(n);
    printf("Factorial of %d is :\n%d",n,f);
    return 0;
}
```

```
}
```

(7)

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

```
int fact(int n)
```

```
{
```

```
    int i,f=1;
```

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

```
        f=f*i;
```

```
    return f;
```

```
}
```

```
int comb(int n,int r)
```

```
{
```

```
    return fact(n)/(fact (r)*fact(n-r));
```

```
}
```

```
int main()
```

```
{
```

```
    printf("Combination = %d\n",comb(10,2));
```

```
}
```

(8)

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

```
int fact(int n)
```

```
{
```

```
    int i,f=1;
```

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

```
        f=f*i;
```

```
    return f;
```

```
}
```

```
int per(int n,int r)
```

```

{
    return fact(n)/(fact(n-r));
}
int main()
{
    printf("Permutation = %d\n",per(10,2));
}

```

(9)

```

#include<stdio.h>
int check(int digit,int num)
{
    while(num)
    {
        if(num%10==digit)
            return 1;
        num = num/10;
    }return 0;
}
int main()
{
    if(check(2,123))
        printf("Yes\n\n");
    else
        printf("No\n");
}

```

(10)

```

#include<stdio.h>

```

```
void primeFact(int n)
```

```
{
```

```
    int i=2;
```

```
    for(i=2;i<=n;i++)
```

```
    {
```

```
        while(n%i==0)
```

```
        {
```

```
            printf(" %d ",i);
```

```
            n=n/i;
```

```
        }
```

```
    }
```

```
}
```

```
int main()
```

```
{
```

```
    primeFact(36);
```

```
}
```