Q 1//Write a program to calculate area of circle(TSRS)

```c
#include<stdio.h>
int area(int);
int main()
{
    int s,a;
    printf("enter the radius of circle\n");
    scanf("%d",&a);
    s=area(a);
    printf("area is %d",s);
    return 0;
}
int area(int r)
{
    return 3.14*r*r;
}
```

Q2 //Write a function to calculate simple interest(TSRS)

```c
#include<stdio.h>
int f1(int,int,int);
int main()
{
    int s,b,c,d;
    printf("enter the principal,rate of interest and time period");
    scanf("%d%d%d",&b,&c,&d);
    s=f1(b,c,d);
    printf("simple interest is %d",s);
    return 0;
}
int f1(int p,int r,int t)
{
```

```c
    return (p*r*t)/100;
}
```

Q3//Write a program to check whether a given number is even or odd.Return 1 if the number is even,otherwise return 0(TSRS)

```c
#include<stdio.h>

int num(int);

int main()
{
    int s,a;
    printf("enter any number\n");
    scanf("%d",&a);
    s=num(a);
    printf("given number is %d",s);
    return 0;

}
int num(int n)
{
    if(n%2==0)
        return 1;
    else
        return 0;
}
```

Q4//Write a function to print first N natural numbers(TSRN)

```c
#include<stdio.h>

void f1(int,int);

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

```c
    f1(x,y);

    return 0;

}

void f1(int n,int i)

{

    printf("enter any number\n");

    scanf("%d",&n);

    i=1;

    while(i<=n)

    {

        printf("%d\t",i);

        i++;

    }

}
```

Q5//Write a function to print first N odd natural numbers.(TSRN)

```c
#include<stdio.h>

void add(int,int);

int main()

{

    int a,b;

    odd(a,b);

    return 0;

}

void odd(int n,int i)

{

    printf("enter any number\n");

    scanf("%d",&n);

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

    {

        printf("%d\n",2*i-1);
```

```c
    }
    getch();
}
```

Q6 //Write a function to calculate factorial of a number(TSRS).

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

Q7//Write a function to calculate the number of combinations one can make from n items and r selected at a time.(TSRS)

```c
#include<stdio.h>
int main()
{
    int a,b,s;
```

```c
    printf("enter any number");
    scanf("%d",&a,&b);
    s=fact(a,b);
    printf("combinations is %d",a,b,s);
    return 0;
}
int fact(int n)
{
    int i,fact=1;
    for(i=1;i<=n;i++)
    {
        fact=fact*i;
    }
    return fact;
}
int comb(int n,int r)
{
    return fact (n)/(fact (r)*fact(n-r));
}
```