Q1:-

```c
#include<stdio.h>
float circle (int);
int main(){
    int r;
    printf("Enter the radius of a circle:\n");
    scanf("%d",&r);
    printf("The Area of a circle is %.2f",circle(r));
    return 0;
}
float circle(int r)
{
    float a;
    a=3.14*r*r;
    return a;
}
```

Q2:-

```c
#include<stdio.h>
float simple(int,int,int);
int main()
{
    int p,r,t;
    printf("Enter the values:\n");
    scanf("%d %d %d",&p,&r,&t);
    printf("The S.I is %.2f",simple(p,r,t));
    return 0;
}
float simple(int p,int r,int t)
{
    float si;
    si=p*r*t/100.0;
    return si;
}
```

Q3:-

```c
#include<stdio.h>
int eo(int);
int main(){
    int num;
    printf("Enter a number:\n");
    scanf("%d",&num);
    if( eo(num)==1 )
    printf("Even");
    else
    printf("Odd");
    return 0;
}
int eo(int num)
{
    if(num%2==0)
```

```
        return 1;
        else
        return 0;
}
```

Q4:-

```c
#include<stdio.h>
void natural(int);
int main()
{
    int num;
    printf("Enter a number:\n");
    scanf("%d",&num);
    natural(num);
    return 0;
}
void natural(int num)
```

```c
{
    int i;
    for(i=1;i<=num;i++)
        printf("%d\t",i);
}
```

Q5:-

```c
#include<stdio.h>
void odd(int);
int main()
{
    int num;
    printf("Enter a number:\n");
    scanf("%d",&num);
    odd(num);
    return 0;
}
```

```c
void odd(int num)
{
    int i;
    for(i=1;i<=num;i++)
        printf("%d\t",i*2-1);
}
```

Q6:-

```c
#include<stdio.h>
int fact(int);
int main()
{
    int num;
    printf("Enter a number:\n");
    scanf("%d",&num);
    printf("The factorial of the %d is %d",num,fact(num));
    return 0;
```

```c
}
int fact(int num)
{
    int i=1,f=1;
    while(i<=num){
        f=f*i;
        i++;
    }
        return f;
}
```

Q7:-

```c
#include<stdio.h>
int com(int);
int main()
{
    int n,r;
```

```c
    printf("Enter the values of ""n"":\n");
    scanf("%d",&n);
    printf("Enter the values of ""r"":\n");
    scanf("%d",&r);
    printf("The nCr is :- %d", com(n) / (com(r)*com(n-r)) );
}
int com(int num)
{
    int i=1,fac=1;
    while(i<=num)
    {
        fac=fac*i;
        i++;
    }
        return fac;
}
```
Q8:-

```c
#include<stdio.h>
int per(int);
int main()
{
    int n,r;
    printf("Enter the values of ""n"":\n");
    scanf("%d",&n);
    printf("Enter the values of ""r"":\n");
    scanf("%d",&r);
    printf("The nPr is :- %d", per(n) / (per(n-r)) );
}
int per(int num)
{
    int i=1,fac=1;
    while(i<=num)
    {
```

```c
            fac=fac*i;
            i++;
        }
        return fac;
}
```

Q9:-

```c
#include<stdio.h>
int f1(int,int);
int main(){
    int num,dig,s;
    printf("Enter the number and digit:\n");
    scanf("%d %d",&num,&dig);
    if(f1(num,dig))
    printf("The given number contains a given digit");
    else
```

```c
    printf("The given number doesn't contains a given digit");
    return 0;
}
int f1(int num,int dig)
{
    int rem;
    while(num!=0)
    {
        rem=num%10;
        num=num/10;
        if(rem==dig)
        return 1;
        else
        return 0;
    }
}
```

Q10:-

```c
#include<stdio.h>
void prime(int);
int main()
{
    int num;
    printf("Enter a number:\n");
    scanf("%d",&num);
    prime(num);
    return 0;
}
void prime(int num)
{
    int i=2;
    while(num!=1)
    {
        if(num%i==0)
        {
```

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

        num=num/i;

    }

    else

    i++;

    }

}
```