

Assignment 1

Q1. #include<stdio.h>

```
void main(){
    float C=12.3;
    float F;

    F=(C*9/5)+32;
    printf(" c is %f and its F is %f",C,F);
}
```

.....

Q2.

//find area of rectangle and circle

#include<stdio.h>

```
void main(){
    float length=12.3,breadth=10,area_R,perimeter_R;
    float radius=3.5,pie=3.14,area_C,perimeter_C;

    area_R=length*breadth;
    area_C=pie*radius*radius;

    perimeter_R=2*(length+breadth);
    perimeter_C=2*pie*radius;

    printf("\narea of rectangle is %f",area_R);
    printf("\narea of circle is %f",area_C);

    printf("\nperimeter of rectangle is %f",perimeter_R);
    printf("\nperimeter of circle is %f",perimeter_C);
}
```

.....

Q3.

//accept 3 digit num ,sum the digits and reverse

```

#include<stdio.h>

void main(){

    int num=123,sum,rev;

    int r1,r2,r3,q1,q2,q3;


    r1=num%10;
    q1=num/10;


    r2=q1%10;
    q2=q1/10;


    r3=q2%10;
    q3=q2/10;


    sum=r1+r2+r3;
    rev=(r1*100)+(r3*10)+(r2*1);


    printf("\nThe sum of the digit is %d ",sum);
    printf("\nThe reverse of the number is %d",rev);


}

```

Q4

//check even and odd

```

#include<stdio.h>

void main(){

    int num=5;


    if(num%2==0){

        printf("Even number");
    }
}

```

```

    }
    else
    {
        printf("odd number");
    }
}
.....

```

Q5

//total salary

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

```
void main(){
```

```
    float basic=3000,total;
```

```
    float da,ta,hra,a;
```

```
    if(basic<=5000){
```

//printf("a is %f",a=10/100);// 10/100 it is internally is a int so int /int gives int
therefore it gives 0

```
        //da=basic*(10/100); eihter make any one float or convert into 0.1
```

```
        da=basic*0.1;
```

```
        printf("\nda is %f",da);
```

```
        ta=basic*0.2;
```

```
        printf("\nta is %f",ta);
```

```
        hra=basic*0.25;
```

```
        printf("\nhra is %f",hra);
```

```
    }
```

```
    else{
```

```
        da=basic*(15/100);
```

```
        ta=basic*(20/100);
```

```
        hra=basic*(25/100);
```

```
    }
```

```
total=basic+da+ta+hra;

printf("\nThe total salary is %f",total);

}
```

Q6

//eligible for marriage

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

```
void main(){
```

```
    /*
```

```
    int male_age=20;
```

```
    int female_age=21;
```

```
    if(male_age>=21&&female_age>=18){
```

```
        printf("eligible for marriage");
```

```
    }
```

```
    else{
```

```
        printf("not eligible");
```

```
    }
```

```
    */
```

```
    char gender='M';//input either 'F' or 'M'
```

```
    int age=18;
```

```
    if(gender=='F'){
```

```
        if(age>=18){
```

```
            printf("Female is eligible for Marriage");
```

```
        }
```

```
        else{
```

```
            printf("female is not eligible");
```

```
        }
```

```
    }
```

```
else{
    if(gender=='M'){

        if(age>=21){
            printf("Male is eligible for marriage");
        }
        else{
            printf("Male is not eligible");
        }
    }
    else{
        printf("invaild input");
    }
}
}
```