

Assignment 1

Q1

// Finding F from C (temp).

```
#include<stdio.h>

int main(){
    float celcius, farahnite;
    printf("Enter a temp :");
    scanf("%f", &celcius);
    farahnite = (celcius*9/5)+32;
    printf("Given temp in farhanite is %f",farahnite);
}
```

Q2

// Finding area and perimeter of rectangle or circle.

```
#include<stdio.h>

int main(){

    int radius , perimeter,area;

    printf("Enter a radius :");
    scanf("%d", &radius);

    area = 3.14*radius*radius;
    printf("area of circle is : %d \n",area);

    perimeter = 3.14*2*radius;
    printf("perimeter of circle is : %d",perimeter);
}
```

Q3

// Accept a 3 digit number from user and find the sum of the digits and also reverse the number

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

```
int main() {
```

```
    int num, sum = 0, rev = 0, temp;
```

```
    printf("Enter a 3-digit number: ");
```

```
    scanf("%d", &num);
```

```
    if (num >= 100 && num <= 999) {
```

```
        temp = num;
```

```
        while (temp > 0) {
```

```
            sum += temp % 10;
```

```
            rev = rev * 10 + temp % 10;
```

```
            temp /= 10;
```

```
        }
```

```
        printf("Sum of digits: %d\n", sum);
```

```
        printf("Reverse of the number: %d\n", rev);
```

```
    } else {
```

```
        printf("Enter a valid 3-digit number.\n");
```

```
    }
```

```
}
```

Q4

// Check if the given number is even or odd.

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

```
int main(){
```

```
    int num;
```

```
    printf("Enter a number :");
```

```
    scanf("%d", &num);
```

```
    if (num%2==0)
```

```
        printf("Even");
```

```
    else
```

```
        printf("Odd");
```

```
}
```

Q5

*// Calculating total salary based on basic. If basic <=5000 da, ta and hra will be
// 10%,20% and 25% respectively otherwise da, ta and hra will be 15%,25% and
// 30% respectively.*

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

```
int main(){
```

```
    int salary,DA,TA,HRA,total=0;
```

```
    printf("Enter a basics salary :");
```

```
    scanf("%d", &salary);
```

```
    if (salary <= 5000)
```

```
    {
```

```

    DA = salary*0.1;
    TA = salary*0.2;
    HRA = salary*0.25;

    total = salary+DA+TA+HRA;
    printf("Total Salary :%d",total);
}else{
    DA = salary*0.15;
    TA = salary*0.25;
    HRA = salary*0.30;

    total = salary+DA+TA+HRA;
    printf("Total Salary :%d",total);
}

}

```

Q6

*// Write a program to check if person is eligible to marry or not (male age >=21
 // and female age>=18).*

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

```

int main(){
    int fage, mage;

    printf("Enter female age :");
    scanf("%d", &fage);

    printf("Enter male age :");

```

```
scanf("%d", &mage);
```

```
if(mage >=21 && fage >=18)
```

```
printf("Both eligible");
```

```
else if(mage <=21 && fage<=18)
```

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

```
else if (mage<=21 || fage>=18)
```

```
printf("male not eligible , female eligble");
```

```
else if(mage >=21 || fage<=18)
```

```
printf("female not eligible , male eligble");
```

```
}
```