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)+(r3\*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 therfore it gives o

//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");

}

}

}