Assignment 2

Q.1 Find the price of item when discount is given (specify different discount based on price)

```
int main(){
	int price = 500;
	float finalprice;
	float discount;
	if(price <= 500){

		discount = price * 0.10;
	}
	else if(price>500 && price<=1000){

		discount = price * 0.20;
	}

	else if(price>1000 && price<2000){

		discount = price * 0.25;
	}

	finalprice = price - discount;
	printf("FinalPrice=%.2f",finalprice);
}
```

2. Write a program to find greatest of three numbers using nested if-else

```
int main(){
	int a= 10 , b=5 , c= 20;
	if(a>b){
		if(a>c){
			printf(" a is greater");
		}
		else{

			printf(" c is greater");
		}
	}
	else
	{
		if(b>c)
		{
			printf("b is greater");
		}

		else{
			 printf(" c is  greater");
		}
	}
}
```

```
int main(){

	int a= 100 , b= 20;
```

```
char sy = '/';
int result;

if(sy == '+'){

        result = a + b;
        printf("result =%d",result);
}
else if(sy == '-'){

        result = a-b;
        printf("result =%d",result);
}

else if (sy == '*'){

        result = a*b;
        printf("result = %d", result);
}

else if(sy == '/'){
         result = a/b;
         printf("result =%d",result);

}
else if( sy =='%'){

        result = a%b;
        printf("result = %d",result);
}
```

```
}
```

3. Accept two numbers from user and an operator (+,-,/,*,%) based on that perform the desired operations.

```
int main(){

    int a= 100 , b= 20;
    char sy = '/';
    int result;

    if(sy == '+'){

        result = a + b;
        printf("result =%d",result);
    }
    else if(sy == '-'){

        result = a-b;
        printf("result =%d",result);
    }

    else if (sy == '*'){

        result = a*b;
```

```
            printf("result = %d", result);
        }

        else if(sy == '/'){
            result = a/b;
            printf("result =%d",result);

        }
        else if( sy =='%'){

            result = a%b;
            printf("result = %d",result);
        }

}
```

4. Display a menu to the user (like 1.Even Odd 2. Basic salary etc), ask the user to enter his choice,then based on that perform the desired operations.

```
int main(){

        int ch = 2;
        int  a=10;
        int basicSalary =5000;
        float ta,hra,ba;
        float totalSalary;

        if (ch ==1){
```

```
        if(a%2==0){
                printf("a is even ");
        }
        else{

                printf("a is odd");
        }
}

else if(ch == 2){

    if(basicSalary<=5000){

        ba = basicSalary*0.10;
        ta = basicSalary*0.15;
        hra = basicSalary*0.20;
          }

          else {

            ba = basicSalary*0.30;
        ta = basicSalary*0.35;
        hra = basicSalary*0.40;
          }

          totalSalary = basicSalary+ ba+ ta+hra;
          printf("Total Salary=%.2f",totalSalary);
}

else if( ch>=3){
```

```
            printf("Invalid choice");
        }
}

//5. Accept the price from user. Ask the user if he is a student (user may say yes or
//no). If he is a student and he has purchased more than 500 than discount is 20%
//otherwise discount is 10%.But if he is not a student then if he has purchased
//more than 600 discount is 15% otherwise there is not discount.


int main(){

        float price= 200;
        float discount;
        float finalprice;
        char isStudent = 'N';

        if(isStudent=='Y'){
                if(price>500){
                        discount = price*0.20;
                }
                else {

                        discount = price *0.10;

                }
    }

    else{
```

```
    if (price>600){

            discount = price*0.15;

            }
            else{

                    discount= 0;
            }
    }

    finalprice = price - discount;
    printf("Final price =%.2f",finalprice);


}
```