

lab-1

1)

Create structure item details with members itemname, quantity, price, total amount. calculate party expence.

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

```
struct prod {
```

```
    char itm[20];
```

```
    int qty;
```

```
    int price;
```

```
};
```

```
void main() {
```

```
    int n, total = 0;
```

```
    struct prod m[10];
```

```
    printf("Enter total no of product\n");
```

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

```
    for(int i=0; i<n; i++) {
```

```
        printf("Enter product name, quantity  
and price for %d\n", i+1);
```

```
        scanf("%s", m[i].itm);
```

```
        scanf("%d", &m[i].qty);
```

```
        scanf("%d", &m[i].price);
```

```
    }
```

```
    for(int i=0; i<n; i++) {
```

```
        total = total + m[i].price * m[i].qty;
```

```
    }
```

```
    printf("Total price is %d", total);
```

```
}
```

o/p

Enter the total no of product

3

Enter product name quantity and price for 1

a

2

10

Enter product name quantity and price for 2

b

3

5

Enter product name quantity and price for 3

c

1

20

Total price is 55

2) Program to check backlogs

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

```
struct gradelist {
```

```
    char coursecode[8][10];
```

```
    int credits[8];
```

```
    char grade[8];
```

```
};
```

```
struct std {
```

```
    char name[20];
```

```
    char usn[10];
```

```
    struct gradelist sem1;
```

```
    struct gradelist sem2;
```

```
} std1;
```



```

int blcredits(struct std s){
    int bl=0;
    for (int i=0; i<8; i++){
        if (s.sem1.grade[i]=='F'){
            bl=bl+s.sem1.credits[i];
        }
    }
    for (int i=0; i<8; i++){
        if (s.sem2.grade[i]=='F'){
            bl=bl+s.sem2.credits[i];
        }
    }
    return (bl);
}

```

```

int main(){
    printf("Enter student name: \n");
    scanf("%s", std1.name);
    printf("Enter student usn: \n");
    scanf("%s", std1.usn);
    printf("Enter course code, credits,
    and grade for sem 1 \n");
    for (int i=0; i<8; i++){
        printf("course code: ");
        scanf("%s", std1.sem1.coursecode[i]);
        printf("credits: ");
        scanf("%d", &std1.sem1.credits[i]);
        printf("grade: ");
        scanf("%c", &std1.sem1.grade[i]);
    }
    printf("Enter course code, credits
    and grade for sem 2 \n");
}

```

```

for(int i=0; i<8; i++){
    printf("course code:");
    scanf("%s", std1.sem2.coursecode[i]);
    printf("credits:");
    scanf("%d", &std1.sem2.credits[i]);
    printf("Grade:");
    scanf("%c", &std1.sem2.grade[i]);
}

```

```

int blc = blcredits(std1);

```

```

if (blc >= 16) {
    printf("Fail");
}

```

```

else {
    printf("Pass");
}

```

```

return 0;

```

```

}

```

- 4) given array arr[] contains n distinct feet-inch system. write program to sum them
 i/p arr = { {1, 1.7}, {1, 1.5}, {6, 8} } o/p sum = 8
 #include <stdio.h> isum = 11.20

```

struct dist {

```

```

    float a[10][10];
} d;

```

```

void main() {

```

```

    int n;

```

```

    float sum = 0.0 isum = 0.0;

```

```

    printf("Enter the number of feet-inch pairs\n");

```



```

scanf ("%d", &n);
printf ("Enter the pairs\n");
for (int i=0; i<n; i++){
    for (int j=0; j<2; j++){
        scanf ("%d", &d[i][j]);
    }
}
for (int i=0; i<a; i++){
    fsum += d[i][0];
    isum += d[i][1];
}
printf ("Feet sum = %.f\n Inch sum = %.f\n", fsum, isum);

```

3

o/p:

Enter the number of feet-inch pairs

2

Enter the pair

2 2

4 1

Feet sum = 6

Inch sum = 3

