Course: 230 MC103

Course Title: Programming & Problem Doling

Laboratory

Do tramment 01

Bard A

Que 1. (b) compilation error

Quea 2. (a) call leg value

Oues. (b) real

Quea 4. (10) name+7

Quea 5. (ic) None of the about

Quea 6. (c) Happ

Que 7. (a) 50

Ours 8. (c) do-ushile

Qua g. (c) %d

Oua 10. (b) 50 How are you?

Part B

Quea 1.

and unub bria assutrusta priisagmas

#unclude < sotdie . h>

unt integer; char character; float real value; 3 Late as structure; typedy struct &

unt unteger; char character; float real value; } late as union; 3 mainie Jepaget

int main () {

Job al atructure atructure = { 5, A, 3.4, };

Labos_union union type = { 7};

print ("structure: %d\n", structure. character); // 7

printy ("attructure: % d \n", signed (attructure)); 1/4

print (" union: %d\n", wired (union type); 1/12

returno;

```
# include < setdie · h >

int main () {

int age; char name [30];

printf ("Enter the name of the person: ");

gets (name);

printf ("Enter the age of the person: ");

secant ("%d", & age);

for (int i=0; i < age; i++) printf ("% a \n", name);

return 0;
```

Oums.

3

Calculate price & discount

```
<h. sibta>sbuls #
float ralculate Discount (float price) {
      float discount = 0.8;
       if (price < 1000) discount = price × 0.05;
  elaif (price < 5000) diacount = price * 0.1;
      clai por idiacount = price * 0.15;
      return discount;
Int main () {
     ichar caption='N'; float total price =0;
     do { float price; unt numitemo;
           acant (%)", & price); wary ("% &d", & numitama);
           total price = total price * (price * num itema);
          panty ("More Itema? (Y/N); "); Hluch (atdin);
          warmy ("%c", & option);
      Surhile Coption == 'Y' 11 option == 'y');
     print ("Discount is "/of.", calculate Discount (total price);
    seturn 0;
```

```
Deepankan Dhanma
                                                   233512013
                 consecutive 3 a
aug 4.
                                                   Loma
   < h: aibto > abubny #
   # unclude < strings. h>
   usid consecutive A in String (cher * str) &
               unt i=0, count=0;
               while (@tr[i] != '\0')}
                        if (outr [i] == 'a') count +=1;
                        eloe count = 0;
                        if (count >= 3) {
                                printy ("YES"); octurn;
                printy ("NO");
    int main () {
         char str [100]; gets (outs);
        consecutive A in string (otr); return 0;
   3
                      Armatrong Number
Ques 5.
       # unclude < setdio h>
       & (mur true) grantamana sint rum) &
              unt real num=num, soum=0;
              dishile (num!=0) {
                    unt temp = num 1010; num = num/10;
                    soum+= temp* temp* temp;
             return sum = = real num;
       unt main () {
              unt rum
              prints ("Enter number; "); occary ("%d", & num);
```

if (whick Armstrong (num))

ocaturn 0;

print ("Number is Armstrong number");

printy ("Number usn't Armotrong number.");