```
//end module
Q1.
//Q1
#include<stdio.h>
void main(){
        char str[]="aei zpo 12";
        int v=0,c=0,s=0,d=0;
        for(int i=0;str[i]!='\0';i++){
                 if(str[i]=='a'||str[i]=='A'||
                         str[i]=='e'||str[i]=='E'||
                         str[i]=='i'||str[i]=='I'||
                         str[i]=='o'||str[i]=='O'||
                         str[i]=='u'||str[i]=='U'){
                                  v++;
                                  //printf("V:%d\n",v);
                         }
                         else{
                                  if(str[i]==' '){
                                          s++;
                                          //printf("S:%d\n",s);
                                  }
                                  else{
                                           if(str[i]>='A'&&str[i]<='Z' || str[i]>='a'&& str[i]<='z'){
                                                   C++;
                                                   //printf("C:%d\n",c);
                                           }
                                           else{
                                                   if(str[i]>='0' && str[i]<='9'){
                                                            d++;
```

```
//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            printf("D:%d\n",d);
                                                                                                                                                                                                                                                                                                                                                                                                                        }
                                                                                                                                                                                                                                                                                                                                                   }
                                                                                                                                                                                                                                                                              }
                                                                                                                                                                                                          }
                                                                     }
                                                                     printf("Str:%s\n",str);
                                                                     printf("vowels:%d consonants:%d space:%d digits:%d",v,c,s,d );
 }
 o/p
     Project Clas + Q1.c
                                                                            17 ₽
                                                                            Str:aei zpo 12
vowels:4 consonants:2 space:2 digits:2
                                                                                                                                               s exited after 0.01103 seconds with return value 38 cny key to continue . . . |

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                                                                                                                                                                                                                                            Q Search
//Q2
//Q2
 #include<stdio.h>
 #include<math.h>
```

void main(){

int no;

scanf("%d",&no);

printf("Enter the no to reverse:");

```
int rev=func_rev(no);
       printf("After reverse :%d",rev);
}
int func_rev(no){
       if(no==0){
               return 0;
       }
       else{
               int count=0,c,power,num=no;
               while(num!=0){
                      num=num/10;
                      count++;
               }
               c=count-1;
               power=pow(10,c);
               return ((no%10)*power )+func_rev(no/10);
       }
}
//o/p
```

```
printf("After reverse :%d",rev);
                                            Enter the no to reverse:1234
After reverse :4321
                                              Process exited after 2.38 seconds with return value 19 	ext{Press} any key to continue . . . \mid
Compiler (4

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//Q3
//Q3
#include<stdio.h>
typedef struct product{
                                              int id;
                                              char name[20];
                                              double price;
}product;
void display(product*,int);
void store(product*,int);
void main(){
                                               product p[5];
                                              store(p,5);
                                               display(p,5);
}
void store(product* p,int s){
```

```
for(int i=0;i<s;i++){
                 printf("\nEnter the value at index:%d\n",i);
                 printf("Enter the id:");
                 scanf("%d",&p[i].id);
                 fflush(stdin);
                 printf("Enter tha name");
                 gets(p[i].name);
                 printf("Enter the price:");
                 scanf("%lf",&p[i].price);
                 if(p[i].price>500){
                          dis=p[i].price*0.2;
                          printf("\nDiscount is %lf\n",dis);
                          p[i].price=p[i].price-dis;
                          printf("\nafter discount Price:RS.%lf\n",p[i].price);
                 }
                 else{
                          dis=p[i].price*0.05;
                          printf("\nDiscount is:RS. %If\n",dis);
                          p[i].price=p[i].price-dis;
                          printf("\nafter discount Price:RS.%If\n",p[i].price);
                 }
        }
        printf("\n");
}
void display(product* p,int s){
        double gst,total=0;
        for(int i=0;i<s;i++){
                 printf("product at index %d\n",i);
                 printf("id:%d\n",p[i].id);
```

double dis;

```
printf("name:%s\n",p[i].name);
    printf("Price:%lf\n",p[i].price);
    total=total+p[i].price;
    printf("\n");
}
printf("Total before gst:RS.%lf\n",total);
gst=total*0.18;
printf("Gst:RS.%lf",gst);
total=total-gst;
printf("Total after gst:RS.%lf\n",total);
```

