1.

```
#include <stdio.h>
int main() {
    int n,a[20],i, b=0,tot=0,s;
    scanf("%d",&n);
for(i=0;i<n;i++){
    scanf("%d",&a[i]);
}
for(i=0;i<n;i++){
    printf("enetr one digit:%d\n",a[i]);
}
for(int i=0;i<n;i++){
 b=b+a[i];
}
    printf("b:%d\n",b);
while(b>0){
    s=b%10;
    tot=tot+s;
    b=b/10;
}
printf("h:%d\n",tot);
if(tot==1 || tot==2 || tot==7 ||  tot==9 ){
    printf("GOOD");
}
else if(tot==3 || tot==4 || tot==5 || tot==6){
    printf("fair");
```

```
}
else{
    printf("Too fair");
}
    return 0;
}
```

2.

```
 #include<stdio.h>
int main(){
    int a[60],m,i,avg,s=0,per,n;
    scanf("%d",&m);

    for(i=0;i<m;i++){
        scanf("%d",&a[i]);
    }
    for(i=0;i<m;i++){
        printf("mark%d:%d\n",i+1,a[i]);

    }
    for(int i=0;i<m;i++){
        s=s+a[i];
    }
    printf("Total:%d\n",s);

   if(a[i]>50){
     avg=s/m;
```

```
  printf("avg:%d",avg);
   }
  else{
      printf("fail");
  }
     return 0;
}
```

3.

```
 #include<stdio.h>
int main(){
    int a[20],n,i;
    scanf("%d",&n);
    for(i=0;i<n;i++){
        scanf("%d",&a[i]);
    }
    for(i=0;i<n;i++){
        printf("n%d:%d\n",i+1,a[i]);
    }
    for(int i=0;i<n;i++){
    if(a[i]>0){
        printf("positive\n");

    }
    else if(a[i]<0){
        printf("negative\n");
```

```
    }
    else{
        printf("zero\n");


    }
    }
    return 0;
}
```

4.

```
 #include<stdio.h>
int main(){
    int a[10],n,i,choice;
    scanf("%d",&n);
    for( i=0;i<n;i++){
        scanf("%d",&a[i]);
    }
    for(i=0;i<n;i++){
        printf("n%d:%d\n",i+1,a[i]);
    }
    for(int i=0;i<n;i++){
    printf("\n1.one\n2.two\n3.three\n4.four\n5.five\n6.six\n7.seven\n8.eight\n9.nine");
    printf("Enter your choice:");
    scanf("%d",&choice);
    switch(choice){
        case 1:
```

```
    printf("one\n");
    break;
case 2:
printf("two\n");
break;
case 3:
printf("three\n");
break;
case 4:
printf("four\n");
break;
case 5:
printf("five\n");
break;
case 6:
printf("six\n");
break;
case 7:
printf("seven\n");
break;
case 8:
printf("eight\n");
break;
case 9:
printf("nine\n");
break;
```

```
        default:
        printf("invalid\n");
    }
    }
   return 0;
}
```

5.

```
#include<stdio.h>
int main(){
       char college[24];
       int count,n;

       scanf("%s",college);
          scanf("%d",&n);
       int i=0;
       while(college[i]!='\0'){
           printf("%c\n",college[i]);
           i=i+1;
       }
for(int i=0;i<n;i++){
       if(college[i]=='a'){
           count=0;
           count=count+1;
            printf("a:%d\n",count);

       }
```

```
    else  if(college[i]=='e'){
       count=0;
        count=count+1;
         printf("e:%d\n",count);

    }
    else  if(college[i]=='i'){
        count=0;
        count=count+1;
         printf("i:%d\n",count);

    }
    else  if(college[i]=='o'){
count=0;
        count=count+1;
         printf("o:%d\n",count);

    }
    else  if(college[i]=='u'){
        count=0;
        count=count+1;
         printf("u:%d\n",count);

    }
    else{
        printf("invalid\n");
```

```
        }


}
        return 0;
}
```

6.

```
#include<stdio.h>
int main(){
    char a[10];
    int n,i,choice,count=0,s, tot=0,b,x,sum=0;
    scanf("%d",&n);
    scanf("%s",a);
    i=0;
    while(a[i]!='\0'){
        printf("%c",a[i]);
        i=i+1;
    }
for(int i=0;i<n;i++){
 printf("\n1.A \n2.B \n3.C \n4.D \n5.E \n6.F \n7.G \n8.H \n9.I \n10.J" );
 printf("\n11.K \n12.L \n13.M \n14.N \n15.O \n16.P \n17.Q\n18.R \n19.S \n20.T");
 printf("\n21.U \n22.V \n23.W \n24.X \n25.Y \n26.Z");
 printf("\nEnter your choice:");
    scanf("%d",&choice);
   switch(choice){
    case 1:
```

```
count=count+1;
break;
 case 2:
count=count+2;
break;
 case 3:
count=count+3;
break;
 case 4:
count=count+4;
break;
 case 5:
count=count+5;
break;
 case 6:
count=count+8;
break;
 case 7:
count=count+3;
break;
 case 8:
count=count+5;
break;
 case 9:
count=count+1;
break;
```

```
 case 10:
count=count+1;
break;
 case 11:
count=count+2;
break;
 case 12:
count=count+3;
break;
 case 13:
count=count+4;
break;
 case 14:
count=count+5;
break;
 case 15:
count=count+7;
break;
 case 16:
count=count+8;
break;
 case 17:
count=count+1;
break;
 case 18:
count=count+2;
```

```
break;
 case 19:
count=count+3;
break;
 case 20:
count=count+4;
break;
 case 21:
count=count+6;
break;
 case 22:
count=count+6;
break;
 case 23:
count=count+6;
break;
 case 24:
count=count+5;
break;
 case 25:
count=count+1;
break;
 case 26:
count=count+7;
break;
```

```
    default:
    printf("invalid");
}
  printf("count:%d\n",count);
}
b=count;
while(b>0){
   s=b%10;
  tot=tot+s;
  b=b/10;
}
  printf("tot:%d",tot);
if(tot==1 || tot==2 || tot==7 ||  tot==9 ){
    printf("\nGOOD");
}
else if(tot==3 || tot==4 || tot==5 || tot==6){
    printf("\nfair");
}
else{
    printf("\nToo fair");
}

return 0;
}
```