Exercise of array

Sum of first and last digits number

```
#include<stdio.h>
   □int main() {
 3
          int n:
          int i,first;
          printf("\nInput the number : ");scanf("%d",&n);
          int last=n%10;
 7
 8
          while (i>0)
 9
10
              first=i%10;
11
              i=i/10;
12
13
          printf("sum of first and last digit of a number is : %d", first+last);
14
15
```

Sum of digits of the number

```
#include<stdio.h>
 2
    □int main(){
 3
          int n,sum=0,m;
 4
          printf("\nInput the number : ");scanf("%d",&n);
 5
          while (n>0)
 6
 7
               m=n%10;
 8
               sum=sum+m;
 9
               n=n/10;
10
11
          printf("sum of digits of a number = %d", sum);
12
13
```

Product of digits of the number

```
#include<stdio.h>
 2
    □int main() {
 3
           int n, sum=0, m;
           printf("\nInput the number : ");scanf("%d",&n);
 5
           while (n>0)
 6
 7
               m=n%10;
 8
               sum=sum+m;
 9
               n=n/10;
10
          printf("sum of digits of a number = %d", sum);
11
12
13
```

Reverse number

```
1
     #include <stdio.h>
    □int main() {
 2
 3
          int n, rev = 0, remainder;
 4
          printf("Input the number: ");
          scanf("%d", &n);
 5
          while (n != 0) {
 6
7
              remainder = n % 10;
              rev = rev * 10 + remainder;
8
9
              n /= 10;
10
11
          printf("Reversed number = %d", rev);
12
```

Sum of array

```
1
     #include<stdio.h>
2
    □int main() {
3
         float num[5];
 4
         float sum=0;
5
         float average;
 6
         for(int i=0;i<5;i++)</pre>
7
             printf("\nInput the number : ");
8
             scanf("%f", &num[i]);
9
10
             sum=sum+num[i];
11
         printf("\n========\n");
12
13
         average = sum/5;
         printf("\n==> The sum of array is : %.lf", sum);
14
15
         printf("\n==> The average number of array is : %.lff", average);
16
17
18
     }
```

High score than average

```
#include<stdio.h>
 1
 2
    □int main(){
 3
          char name[5][20];
 4
          float score[5];
 5
          char gmail[5][50];
 6
          int phone[5];
 7
          float average, sum=0;
 8
          int k:
 9
          for(int i=0;i<5;i++)</pre>
10
11
              printf("\nInput the name%d : ",i+1);scanf("%s",&name[i]);
              printf("\nInput the score%d : ",i+1);scanf("%f",&score[i]);
12
13
              printf("\nInput the gmail%d : ",i+1);scanf("%s",&gmail[i]);
              printf("\nInput the phone%d : ",i+1);scanf("%d",&phone[i]);
14
              sum=sum+score[i];
15
16
17
          average=sum/5;
          printf("\nThe average number is : %.1f", average);
18
19
          printf("\nThe students who score >= average have :");
          printf("\n====
2.0
                              ===== Output student ===
21
          for(int i=0;i<5;i++)</pre>
22
23
              if(average<=score[i])</pre>
2.4
25
                   printf("\n%s\t%.2f\t%s\t%d", name[i], score[i], gmail[i], phone[i]);
26
                   k++;
27
28
          }
29
```

Code

```
#include<stdio.h>
 2
    □int main() {
 3
          char name [6] [20];
 4
          char gender[6], male, female;
 5
          float salary[5];
 6
          int phone[5];
 7
          float average, sum=0, high, low;
 8
 9
          for(int i=0;i<6;i++)</pre>
10
               printf("\nInput the name%d : ",i+1);scanf("%s",&name[i]);
11
12
               fflush(stdin);
13
              printf("\nInput the gender%d : ",i+1);scanf("%c",&gender[i]);
14
               fflush(stdin);
15
               printf("\nInput the salary%d : ",i+1);scanf("%f",&salary[i]);
16
               printf("\nInput the phone%d : ",i+1);scanf("%d",&phone[i]);
17
               sum=sum+salary[i];
18
19
          male=gender[0];
20
          low=salary[0];
          high=salary[0];
21
22
          printf("\n========== Output employees =========\n");
23
          average=sum/6;
24
          printf("\nThe employee who got the highest salary : ");
25
          for(int i=0;i<6;i++)
26
27
               if(salary[i]>high)
28
29
                 high=salary[i];
30
31
32
          for(int i=0;i<6;i++)
33
34
              if(salary[i]==high)
35
36
                  printf("\n%s\t%c\t%.f\t%d\n", name[i], gender[i], salary[i], phone[i]);
37
38
39
          printf("\n=======\n");
40
          printf("\nThe employee who got the lowest salary : ");
          for(int i=0;i<6;i++)</pre>
41
42
              if(salary[i] < low)</pre>
43
44
45
                 high=salary[i];
46
47
48
          for(int i=0;i<6;i++)
49
50
              if(salary[i] == low)
51
52
                 printf("\n%s\t%c\t%.f\t%d\n", name[i], gender[i], salary[i], phone[i]);
53
54
55
          printf("\n======
                                                       ======\n");
```

```
56
          printf("\nThe employees whose gender is male : ");
57
          for(int i=0;i<6;i++)</pre>
58
   59
              if(gender[i] == 'm')
60
61
                  printf("\n%s\t%c\t%.f\t%d\n", name[i], gender[i], salary[i], phone[i]);
62
63
          printf("\n=======\n");
64
65
          printf("\nThe employees whose gender is female : ");
66
          for(int i=0;i<6;i++)
67
68
              if(gender[i]=='f')
   69
70
                  printf("\n%s\t%c\t%.f\t%d\n", name[i], gender[i], salary[i], phone[i]);
71
72
73
          printf("\nThe average number is : %.lf", average);
74
          printf("\nThe students who score >= average have :");
75
          for(int i=0;i<6;i++)</pre>
76
77
              if(average<=salary[i])</pre>
78
79
                  printf("\n%s\t%.2f\t%s\t%d", name[i], salary[i], gender[i], phone[i]);
80
81
          }
82
```