

Q Write a program to input 10 values and print in ascending order.

Ans → Logically this problem can be solved by as:-
take a 10 number storage variable.



```
int num[10];
```

Let us accept 10 numbers from user as:-

```
for (int i=0; i<10; i++)  
scanf("%d", &num[i]);
```

Now, compare the first number from every numbers and if no. is lower, store it in 1st location using a temporary variable as -

```
for (int i=0; i<10; i++)  
for (int j=i+1; j<10; j++)  
{  
    if (num[i] > num[j])  
    {  
        int temp;  
        temp = num num[i];  
        num[i] = num[j];  
        num[j] = temp;  
    }  
}
```

Now, num array has required result.

Now, let us convert the above logics into P-2
a complete program: -

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

```
#include <conio.h>
```

```
void main() { int i, j, num[10], temp;
```

```
clrscr();
```

```
printf("Enter any 10 numbers:");
```

```
for (i = 0; i < 10; i++)
```

```
scanf("%d", &num[i]);
```

```
//sorting ascending
```

```
for (i = 0; i < 10; i++)
```

```
for (j = i + 1; j < 10; j++)
```

```
{ if (num[i] > num[j])
```

```
{ temp = num[i];
```

```
num[i] = num[j];
```

```
num[j] = temp;
```

```
}
```

```
printf("\n Sorted Ascending Numbers: \n");
```

```
for (i = 0; i < 10; i++)
```

```
printf("%d \t", num[i]);
```

```

    getch();
}

```

Q Write a program in C to find simple interest, by input principal, rate and time.

Ans → Let us consider a variable for simple interest result storage.

We need three more variables for taking three values from user - principal, rate and time.

Now, let us complete it with program: -

```

#include <stdio.h>
#include <conio.h>
void main() { float si;
float p, r, t;
// Take user input for p, r, t.
printf("\n Please enter principal, rate
and time :");
scanf("%f %f %f", &p, &r, &t);
// calculate simple interest now and store in si
si = (p * r * t) / 100;
printf("\n Simple Interest = %f", si);

```

```

    getch();
}

```

Q Using pointer, write a program to sort a list of storages in alphabetical order.

```

#include <stdio.h>
#include <string.h>
#include <conio.h>
void main() {
    char name[10][15], temp[10][15], t[15];
    int i, j, n;
    printf("\n Enter how many names you want
    to accept:");
    scanf("%d", &n);
    printf("\n Enter %d Names Now:\n", n);
    for (i = 0; i < n; i++)
    {
        scanf("%s", name[i]);
        strcpy(temp[i], name[i]);
    }
    // Alphabetical Sorting condition Now:

```

```

for (i=0; i < n-1; i++)
{
  for (j=i+1; j < n; j++)
  {
    if (strcmp(name[i], name[j]) > 0)
    {
      strcpy(t, name[i]);
      strcpy
      strcpy(name[i], name[j]);
      strcpy(name[j], t);
    }
  }
}

```

```

printf("\n Now sorted Names are: \n");

```

```

for (i=0; i < n; i++)
{
  printf("%s \n", name[i]);
}

```

```

printf("\n The Input Names in real order: \n");

```

```

for (i=0; i < n; i++)
  printf("%s \n", temp[i]);

```

```

getch();
}

```