**MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL**

**DEPARTMENT OF CSE**

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Section: CSE 2

3rd SEM BTech

Subject: Principles of Programming Languages Lab - CSE 219

**Question 1:** Write a program to sort the elements of a given list.

**Program Code:**

#include <stdio.h>

int main()

{

int i,j,n=10,a[10] = {3,5,1,7,2,0,8,4,9,6};

for(i=n-1;i>=0;i--){

for(j=n-1;j>n-i-1;j--){

if(a[j]<a[j-1]){

int temp = a[j];

a[j] = a[j-1];

a[j-1] = temp;

}

}

printf("%d ",a[n-i-1]);

}

return 0;

}

**Output:**

0 1 2 3 4 5 6 7 8 9

**Question 2:** Write a program to find the factorial of a number.

**Program Code:**

#include <stdio.h>

int main()

{

int n = 5,fact=1;

for(int i=5;i>0;i--){

fact\*=i;

}

printf("%d ",i);

return 0;

}

**Output:**

120

**Question 3:** Write a program to reverse the elements of a list.

**Program Code:**

#include <stdio.h>

int main()

{

printf("Enter the elements:\n");

int n=10,a[10];

for(int i = n;i>0;i--){

scanf("%d",&a[i-1]);

}

printf("Reversed elements:");

for(int i=0;i<n;i++){

printf("%d ",a[i]);

}

return 0;

}

**Output:**

Enter the elements:

34

65

23

98

83

Reversed elements:83 98 23 65 34