LINUX ADMINISTRATION-I

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1. Implement if-else statement using shell script to find the greatest of three numbers.

CODE:

```
  GNU nano 2.9.3



echo "Enter Num1"
read num1
echo "Enter Num2"
read num2
echo "Enter Num3"
read num3

if [ $num1 -gt $num2 ] && [ $num1 -gt $num3 ]
then
    echo $num1
elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ]
then
    echo $num2
else
    echo $num3
fi
```

OUTPUT:

```
$ nano great.sh
$ bash great.sh
Enter Num1
3
Enter Num2
4
Enter Num3
5
Greatest of three number is  5
$
```

2. Create a shell script for student result management system which must have a for loop, while loop, and switch case.

CODE:

```
  GNU nano 2.9.3                                    grade.sh

#!/bin/bash
read n
for (( c=1; c<=n; c++ ))
do

while :; do
read -p "Enter the person's name: " name
read -p "Enter the grade of the person: " grade

case $grade in
[50-59]) echo "$name $grade D";;
[60-69]) echo "$name $grade C";;
[70-79]) echo "$name $grade B";;
[80-100]) echo "$name $grade A";;
[1-49]) echo "$name $grade F";;

esac
break
done
done
exit
```
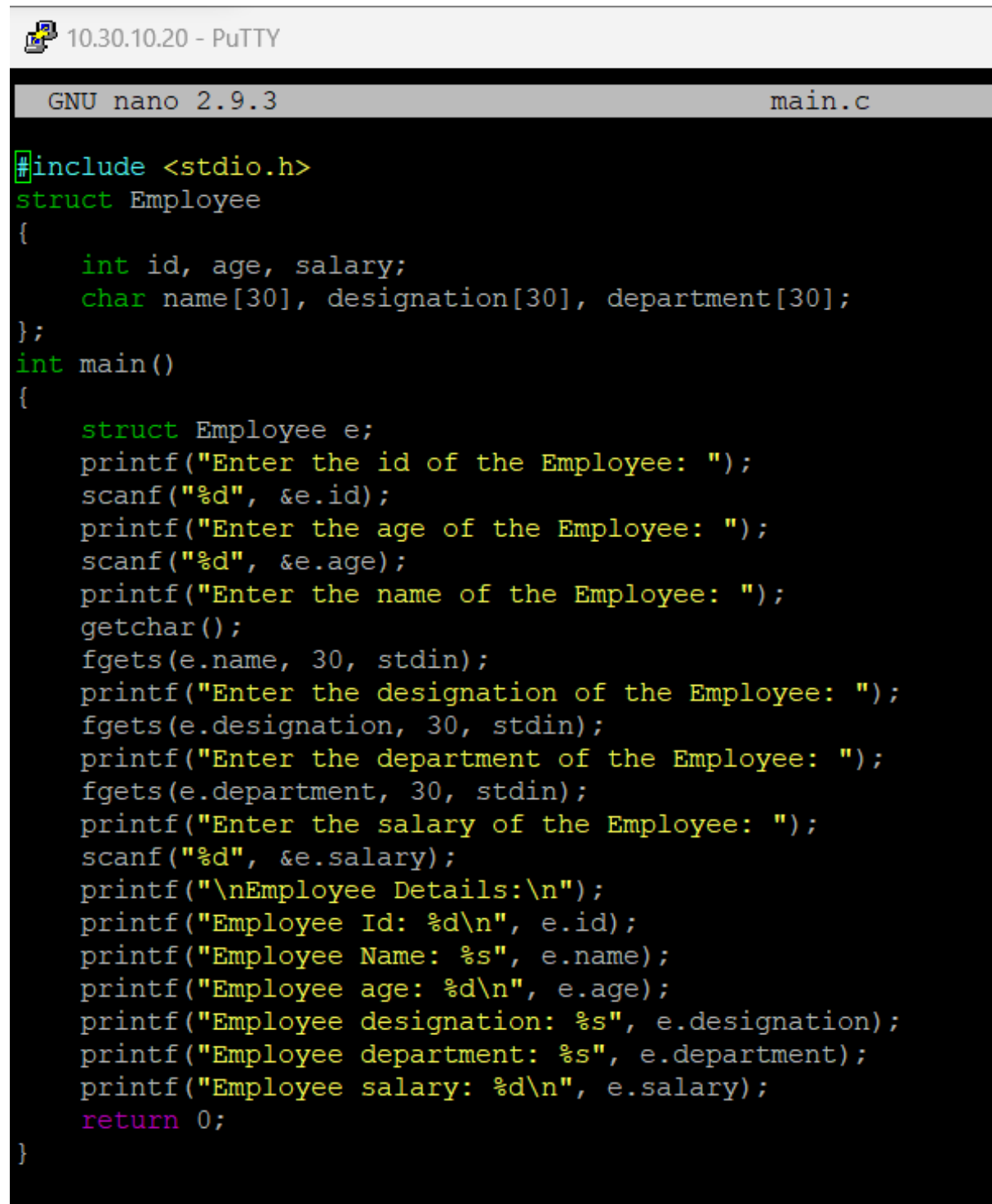
OUTPUT:

```
10.30.10.20 - PuTTY

$ touch grade.sh
$ nano grade.sh
$ bash grade.sh
4
Enter the person's name: John
Enter the grade of the person: 80
John 80 A
Enter the person's name: Sam
Enter the grade of the person: 90
Sam 90 A
Enter the person's name: Amanda
Enter the grade of the person: 70
Amanda 70 B
Enter the person's name: Kali
Enter the grade of the person: 75
Kali 75 B
$
```

3. Create a C program to store Employee details using structure and run the same in your Linux Virtual Machine using your username and password.
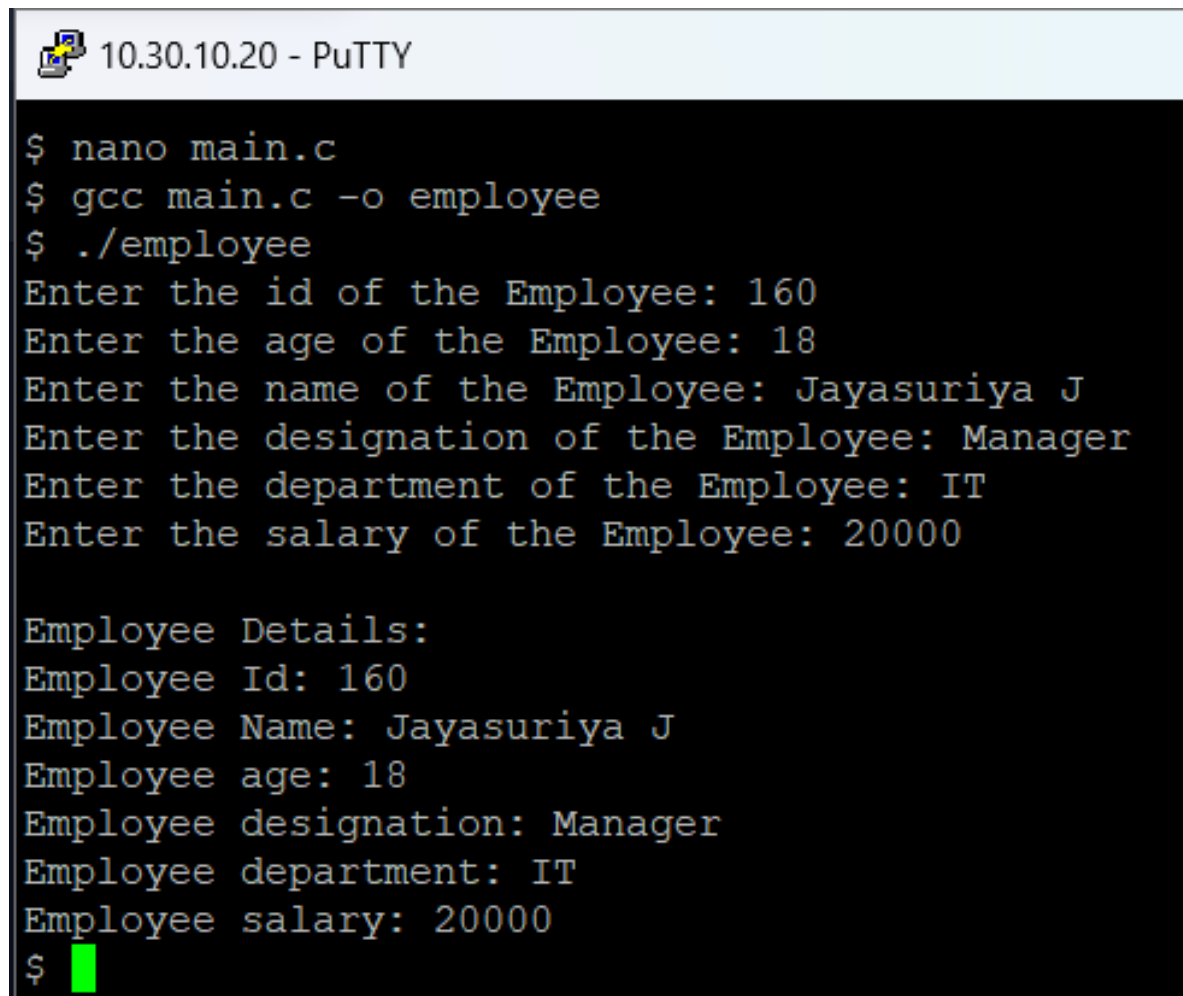
CODE:

GNU nano 2.9.3   main.c

```c
#include <stdio.h>
struct Employee
{
    int id, age, salary;
    char name[30], designation[30], department[30];
};
int main()
{
    struct Employee e;
    printf("Enter the id of the Employee: ");
    scanf("%d", &e.id);
    printf("Enter the age of the Employee: ");
    scanf("%d", &e.age);
    printf("Enter the name of the Employee: ");
    getchar();
    fgets(e.name, 30, stdin);
    printf("Enter the designation of the Employee: ");
    fgets(e.designation, 30, stdin);
    printf("Enter the department of the Employee: ");
    fgets(e.department, 30, stdin);
    printf("Enter the salary of the Employee: ");
    scanf("%d", &e.salary);
    printf("\nEmployee Details:\n");
    printf("Employee Id: %d\n", e.id);
    printf("Employee Name: %s", e.name);
    printf("Employee age: %d\n", e.age);
    printf("Employee designation: %s", e.designation);
    printf("Employee department: %s", e.department);
    printf("Employee salary: %d\n", e.salary);
    return 0;
}
```
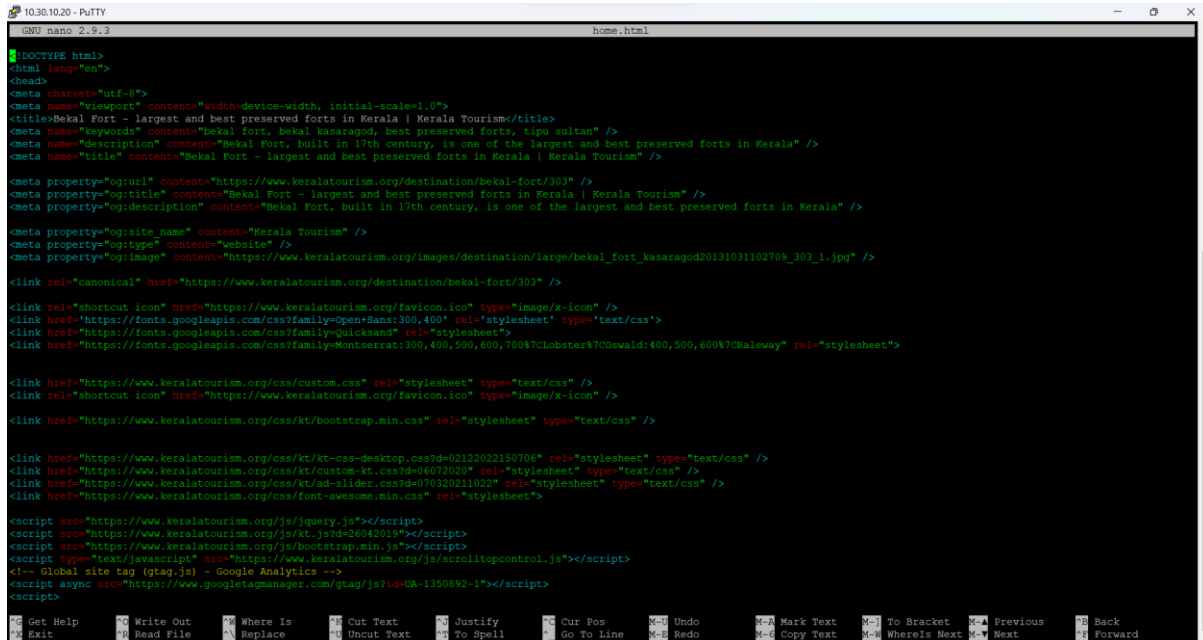
OUTPUT:

```
10.30.10.20 - PuTTY

$ nano main.c
$ gcc main.c -o employee
$ ./employee
Enter the id of the Employee: 160
Enter the age of the Employee: 18
Enter the name of the Employee: Jayasuriya J
Enter the designation of the Employee: Manager
Enter the department of the Employee: IT
Enter the salary of the Employee: 20000

Employee Details:
Employee Id: 160
Employee Name: Jayasuriya J
Employee age: 18
Employee designation: Manager
Employee department: IT
Employee salary: 20000
$
```

4. Create a web page for Tourism Management in your VM and run the same in a browser.

Code in My Directory: **/usr/212IT160/home.html**

Output:

/var/www/html/file1.html