Practical 03

```
1)
#include <stdio.h>
#include <stdlib.h>
int main()
{
  float n1,n2,highest_number;
  printf("Enter the first number: ");
  scanf("%f",&n1);
  printf("Enter the second number: ");
  scanf("%f",&n2);
  if (n1 > n2)
  highest_number = n1;
  else
  highest_number = n2;
  printf("The Highsest number is: %.1f\n",highest number);
  return 0;
}
```

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
  int nu1,nu2,nu3;
  int max, min;
  printf("Enter the first number: ");
  scanf("%d",&nu1);
  printf("Enter the second number: ");
  scanf("%d",&nu2);
  printf("Enter thre third number: ");
  scanf("%d",&nu3);
  printf ("\n");
  max = nu1;
  if (nu2 > max)
```

```
max = nu2;
  if (nu3 > max)
    max = nu3;
  min = nu1;
  if (nu2 < min)
    min = nu2;
  if (nu3 < min)
    min = nu3;
  printf("The largest number is %d\n", max);
  printf("The smallest number is %d\n", min);
  return 0;
3)
#include <stdio.h>
#include <stdlib.h>
int main()
{
  char name[20];
```

}

```
float basic_salary, new_salary;
printf("Enter employee name: ");
scanf("%s", &name);
printf("Enter employee basic salary: ");
scanf("%f", &basic_salary);
printf("\n");
if (basic_salary >= 10000)
{
new_salary = basic_salary + (basic_salary * 15 / 100);
}
else if (basic_salary < 10000 && basic_salary >= 5000)
{
new_salary = basic_salary + (basic_salary * 10 / 100);
}
else if (basic_salary < 5000)
{
new salary = basic salary + (basic salary * 5 / 100);
}
```

```
printf("%s new salary is %.2f\n", name, new_salary);
  return 0;
}
4)
#include <stdio.h>
#include <stdlib.h>
int main()
  float radius, pie = 3.14159; // Declare the variables
  printf("Enter circle radius: "); // User output and get user input
  scanf("%f",&radius);
  printf("\n"); // Skip a line for cleanliness
  printf("Circle diameter: %.2f units\n",radius*2); // Process in printf statement
  printf("Circumference of circle: %.2f units\n",2*pie*radius); // Process in printf
statement
```

```
printf("Area of circle: %.2f square units\n",pie*radius,radius); // Process in
printf statement
  return 0;
}
5)
#include <stdio.h>
#include <stdlib.h>
int main()
{
  int nu1, nu2;
  printf("Enter first number: ");
  scanf("%d", &nu1);
  printf("Enter second number: ");
  scanf("%d", &nu2);
  printf("\n");
  if (nu1 % nu2 == 0)
  {
    printf("%d is a multiple of %d\n.",nu1,nu2);
```

```
}
  else
  {
    printf("%d is not a multiple of %d\n.",nu1,nu2);
  }
  return 0;
}
6)
#include <stdio.h>
#include <stdlib.h>
int main()
  char upperCaseLetter;
  char lowerCaseLetter;
  char digit;
  char specialCharacter;
  char newline; // To consume the newline character
  // Find Uppercase ASCII value
  printf("Enter an uppercase letter: ");
  scanf(" %c",&upperCaseLetter);
```

```
int asciiValue1 = (int) upperCaseLetter;
printf("The ASCII value of %c is %d\n",upperCaseLetter,asciiValue1);
// Find Lowercase ASCII value
printf("Enter a lowercase letter: ");
scanf(" %c",&lowerCaseLetter);
int asciiValue2 = (int) lowerCaseLetter;
printf("The ASCII value of %c is %d\n",lowerCaseLetter,asciiValue2);
// Find Digits ASCII value
printf("Enter a digit: ");
scanf(" %c",&digit);
int asciiValue3 = (int) digit;
printf("The ASCII value of %c is %d\n",digit,asciiValue3);
// Find Special character ASCII value
printf("Enter a special character: ");
scanf(" %c",&specialCharacter);
```

```
int asciiValue4 = (int) specialCharacter;
  printf("The ASCII value of %c is %d\n",specialCharacter,asciiValue4);
  return 0;
}
7)
#include <stdio.h>
#include <stdlib.h>
int main()
{
  float basic_salary, allowance, bonus;
  float monthly_sales,gross_salary;
  int years_of_service;
  char city;
  // Get input values from the user
  printf("Enter the basic salary: ");
  scanf("%f",&basic salary);
  printf("Enter the monthly sales: ");
  scanf("%f",&monthly_sales);
```

```
printf("Enter the years of service: ");
scanf("%d",&years_of_service);
printf("Enter the city (C for Colombo): \n");
scanf("%c",&city);
// Calculate additional allowance based on years of service
if (years_of_service >= 5)
{
  allowance = 0.1*basic_salary;
}
else
{
  allowance = 0;
}
// Calculate additional allowance based on city
if (city == 'C')
  allowance += 2500;
}
// Get monthly sales and calculate bonus
printf("Enter the monthly sales: ");
```

```
scanf("%f",&monthly_sales);
if (monthly_sales < 25000) {
  bonus = 0.1*monthly_sales;
}
else if (monthly_sales >= 25000 && monthly_sales < 50000)
{
  bonus = 0.12*monthly_sales;
}
else if (monthly_sales >= 50000)
  bonus = 0.15*monthly_sales;
}
// Calculate gross salary
gross_salary = basic_salary + allowance + bonus;
// Output the gross salary
printf("Gross monthly remuneration: Rs. %.2f\n", gross_salary);
return 0;
```

}