```
//wap to generate the output 10,20 and 19
// generate 19 after using decrement operator on 20
 2 3 4
     # include <stdio.h>
 5
 6 int main(){
           int num;
printf("enter the number which you want to decrement \n");
scanf("%d",&num);
const int n1=10;
printf("%d %d %d",n1,num,num--);
 7
 8
 9
10
11
12
13
            return 0;
14
15
```

```
# include <stdio.h>
int main(){
    float radius;
    printf("enter the radius of the sphere for which you want the volume\n");
    scanf("%f",&radius);
    float volume=(4*22*radius*radius*radius)/21;
    printf("%f",volume);
}
```

```
# include <stdio.h>
int main(){
    int side1,side2,side3;
printf("enter the first number\n");
scanf("%d",&side1);
printf("enter the second number\n");
scanf("%d",&side2);
printf("enter the third number\n");
scanf("%d",&side3);
11
if(side1+side2>side3 && side2+side3>side1 && side1+side3>side2){
    printf("yes the triangle can be formed\n");
14
            if(side1==side2 && side2==side3 ){
   printf("traingle is equilateral\n");
15
16
17
            élse if(side1==side2 || side2==side3 || side3==side1){
18
                  printf("the triangle is isosceles\n");
19
            }
else{
20
21
                   printf("triangle is scalene\n");
22
23
24
25
26 else{
            printf("triangle cannot be formed");
27
28
29
30
31
```

```
1 2 3 4
      # include <stdio.h>
     int main(){
   int num;
   printf("enter the number which you want to check for the sign\n");
   scanf("%d",&num);
   if(num>=0){
       printf("The number is positive\n");
       if(num%2==0){
            printf("Number is even also\n");
       }
}
 5
 7
 8
 9
10
11
12
13
                              printf("Number is odd\n");
14
              }
else {
   printf("The number is negative");
15
16
17
18
19
20
21
              return 0;
22
```

```
// 5. Write a program to read a character in upper case and then print it in lower case
# include <stdio.h>

int main(){
    char ch;
    printf("please enter the character which you want to make in lowercase\n");
    scanf("%c",&ch);
    printf("the lower case character is %c ",ch+32);

return 0;
}
```

```
// 6. Write a program, which takes two integer numbers as input and it shows their
// exchanged value. (Don't use third variable)

# include <stdio.h>
int main(){
   int num1,num2;
     printf("enter the two integer numbers which you want to change the values\n");
   scanf("%d %d",&num1,&num2);
   printf("%d %d before swapping \n",num1,num2);
   num1=num1+num2;
   num2=num1-num2;
   num1=num1-num2;
   printf("%d %d after swapping \n",num1,num2);

return 0;
}
```

```
// 7. Write a menu driven program in which use can take choice as.
// Addition Subtraction Multiplication Divide Modulo
// After taking the choice from user it should do the desired operation. In case of
// division of dividend is zero, program should display a warning that cannot divide.
     # include <stdio.h>
     int menu(int num1, int num2, int choice) {
    switch(choice) {
 8
 9
                 case 1: // Addition
10
11
                       return num1 + num2;
12
13
                 case 2: // Subtraction
                        return num1 - num2;
14
15
16
17
                 case 3: // Multiplication
    return num1 * num2;
18
                 case 4: // Division
  if (num2 != 0) {
    return num1 / num2;
19
20
21
22
23
                              printf("Division by zero not possible\n");
24
25
26
27
28
29
                              return 0;
                        }
                 case 5: // Modulo
if (num2 != 0)
                              num2 != 0) {
return num1 % num2;
                          else
30
31
                              printf("Modulo by zero not possible\n");
32
33
                              return 0;
                        }
34
                default:
    printf("Invalid choice\n");
    return 0;
35
36
37
38
39
40
    int main() {
   int num1, num2, choice;
41
42
43
          44
45
46
47
48
49
50
51
52
53
54
55
                 if (choice == 6) {    // Exit condition
    printf("Exiting program...\n");
56
57
58
                        break:
59
                 printf("Enter the first number: ");
scanf("%d", &num1);
60
61
62
                 printf("Enter the second number: ");
scanf("%d", &num2);
63
64
65
66
                 int result = menu(num1, num2, choice);
67
                 printf("The result is: %d\n", result);
68
69
           }
70
71
           return 0;
72
```

```
// 8. Write a program, which will find out the largest of three inputs given by the user ,
// only use if and else if ladder .
# include <stdio.h>
int main(){
    printf("enter the three numbers which you want to compare\n");
    int a,b,c;
    scanf("%d%d%d",%a,&b,&c);

if(a>b){
    if(a>c){
        printf("%d is the largest of three ",a);
    }
    else if(a<=c){
        printf("%d is the largest",c);
    }
}
else{
    if(b>=c){
        printf("%d is the largest of three",b);
    }
if(c>b){
        printf("%d is the largest",c);
    }
}
return 0;
}
return 0;
```

```
// 9. Write a program to print the ASCII value of a character.
# include <stdio.h>
int main(){
    char ch;
    printf("enter the character for which you want to print the ascii value\n");
    scanf("%c",&ch);
    printf("%d",(int)ch);
    return 0;
}
```

```
// 10. Write a program which take three inputs one as principal and second rate, third as
// time and calculate the simple interest.

#include <stdio.h>
int main() {
    float principal, rate, time, simpleInterest;

    // Taking inputs
    printf("Enter Principal amount: ");
    scanf("%f", %principal);

printf("Enter Rate of interest: ");
    scanf("%f", %rate);

printf("Enter Time (in years): ");
    scanf("%f", %time);

// Calculating Simple Interest
simpleInterest = (principal * rate * time) / 100;

// Printing result
printf("Simple Interest = %f\n", simpleInterest);

return 0;
}
```