

C-lab-2

1)Write a C program to calculate and print the area of a square and rectangle.

INPUT:

Side of square is : 5

Length and breadth of rectangle is : 4 , 5

ANS:-

// Online C compiler to run C program online

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

```
int main() {  
    int s,l,b,as,ar;  
    {  
        printf("Enter the side of a square:");  
        scanf("%d",&s);  
        as=s*s;  
        printf("Area of the square is;%d\n",as);  
    }  
    {  
        printf("Enter the length:\n");  
        scanf("%d",&l);  
        printf("Enter the breadth:\n");
```

```
scanf("%d",&b);  
ar=l*b;  
printf("Area of the rectangle is:%d",ar);  
return 0;  
}  
}
```

2)Write a c program to find the next multiple of 10 of a given two digit number

INPUT:

input :- 56

output :-60

ANS:-

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

```
void main()
```

```
{
```

```
int num,ld,av,res;
```

```
printf("Enter number:");
```

```
scanf("%d",&num);
```

```
ld=num%10;
```

```
av=10-lld;
```

```
res=num+av;
```

```
printf("Next multiple of 10 is:%d",res);
```

}

3)Write a c program to find the previous multiple of 10 of a given two digit number

INPUT:

input :- 56

output :-50

ANS:-

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

```
int main() {
```

```
    int num,ld,res;
```

```
    printf("Enter number:");
```

```
    scanf("%d",&num);
```

```
    ld=num%10;
```

```
    res=num-lld;
```

```
    printf("Previous multiple of 10 is:%d",res);
```

```
    return 0;
```

```
}
```

4)Write a c program to find the next multiple of 10 of a given two digit number, if the given number's last digit is less than 5 then .find the previous multiple of 10 and if the given number's last digit is greater than or equal to 5 then find the next multiple of 10.

[Dont use if else or ternary operator]

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Write a C program to reverse 3 digit number without using any loops. Given number is 786 and expected output is 687.

ANS:-

```
#include <stdio.h>

int main() {
    int num,d1,d2,d3,d4;
    printf("Enter the number:");
    scanf("%d",&num);
    d1=num%10;
    d2=num/10;
    d3=d2%10;
    d4=d2/10;
    printf("%d%d%d",d1,d3,d4);
    return 0;
}
```

5)Write a c program to take input of 3 digit number from the user , and add the 1st digit and last digit of that given number.

Input as :

Enter a three digit number :

345

Output as :

The addition of first and last digit of the given num is : 8

ANS:-

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

```
int main() {
```

```
    int num,ld,fd1,fd2,sum;
```

```
    printf("Enter a three digit number:");
```

```
    scanf("%d",&num);
```

```
    ld=num%10;
```

```
    fd1=num/10;
```

```
    fd2=fd1/10;
```

```
    sum=fd2+ld;
```

```
    printf("The addition of first and last digit of the given num  
is:%d",sum);
```

```
    return 0;
```

```
}
```