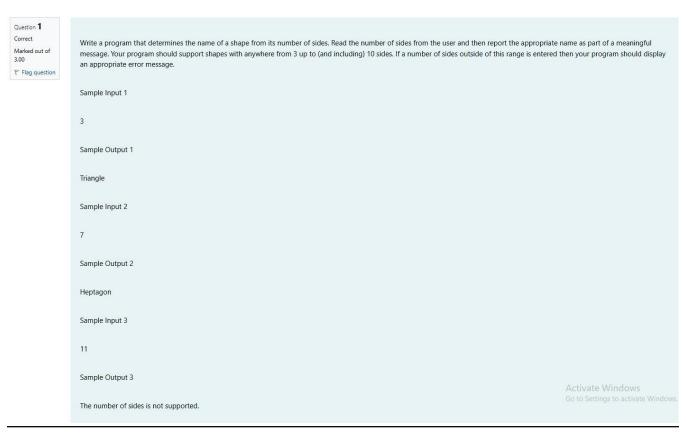


Week-03-Decision Making and Branching - if, if...else and nested if...else, if...else if and switch...case

Week-03-02-Practice Session-Coding



Source code

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2
 3 v int main(){
4
        int n;
 5
        scanf("%d",&n);
 6
 7
 8 .
        if(n==3){
            printf("Triangle");
9
10
        else if(n==4){
11 +
12
            printf("Square");
13
        else if(n==5){
14 +
15
            printf("Pentagon");
16
17 +
        else if(n==6){
            printf("Hexagon");
18
19
20 +
        else if(n==7){
21
            printf("Heptagon");
22
23 +
        else if(n==8){
24
            printf("Octagon");
25
        else if(n==9){
26 +
27
            printf("Nonagon");
28
        else if(n==10){
29 +
            printf("Decagon");
30
31
32 +
        else{
            printf("The number of sides is not supported.");
33
34
35
36
        return 0;
37
```

Result

	Input	Expected	Got	
~	3	Triangle	Triangle	~
~	7	Heptagon	Heptagon	~
~	11	The number of sides is not supported.	The number of sides is not supported.	~

Question 2
Correct
Marked out of 5.00

Flag question

The Chinese zodiac assigns animals to years in a 12-year cycle. One 12-year cycle is shown in the table below. The pattern repeats from there, with 2012 being another year of the Dragon, and 1999 being another year of the Hare.

2000 Dragor	1
2001 Snake	
2002 Horse	
2003 Sheep	
2004 Monke	y
2005 Rooste	r
2006 Dog	
2007 Pig	
2008 Rat	
2009 Ox	
2010 Tiger	
2011 Hare	

Write a program that reads a year from the user and displays the animal associated with that year. Your program should work correctly for any year greater than or equal to zero, not just the ones listed in the table.

Source code

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2
 3 + int main(){
 4
         int year;
 5
         scanf("%d", &year);
 6
 7
 8
         if(year%12==8){
 9 ,
             printf("Dragon");
10
11
         else if(year%12==9){
12 +
             printf("Snake");
13
14
15 +
         else if(year%12==10){
             printf("Horse");
16
17
         else if(year%12==11){
18 +
19
             printf("Sheep");
20
         else if(year%12==0){
21 *
22
             printf("Monkey");
23
24 +
         else if(year%12==1){
             printf("Rooster");
25
26
27 +
         else if(year%12==2){
             printf("Dog");
28
29
         else if(year%12==3){
30 +
             printf("Pig");
31
32
33 +
         else if(year%12==4){
34
             printf("Rat");
35
         else if(year%12==5){
36 +
37
             printf("0x");
38
39 +
         else if(year%12==6){
             printf("Tiger");
40
41
         else if(year%12==7){
42 +
             printf("Hare");
43
44
         }
         else{
45 ,
             return 0;
46
47
48
```

Result

	Input	Expected	Got	
~	2004	Monkey	Monkey	~
/	2010	Tiger	Tiger	~

The square is black.

Answer: (penalty regime: 0 %)

return 0;

Question 3
Correct
Marked out of 7.00
F Flag question

Source code

```
#include<stdio.h>
 1
 2
 3
    int main(){
         int row, cn;
 4
 5
         char col;
 6
        scanf("%c %d",&col,&row);
 7
 8
9
        cn=(col-'a')+1;
10
         if((row+cn)\%2==0){}
11 ,
             printf("The square is black.");
12
13
         else{
14 +
             printf("The square is white.");
15
16
         }
```

Result

17 18

19

	Input	Expected	Got	
~	a 1	The square is black.	The square is black.	~
~	d 5	The square is white.	The square is white.	~

Passed all tests! ✓