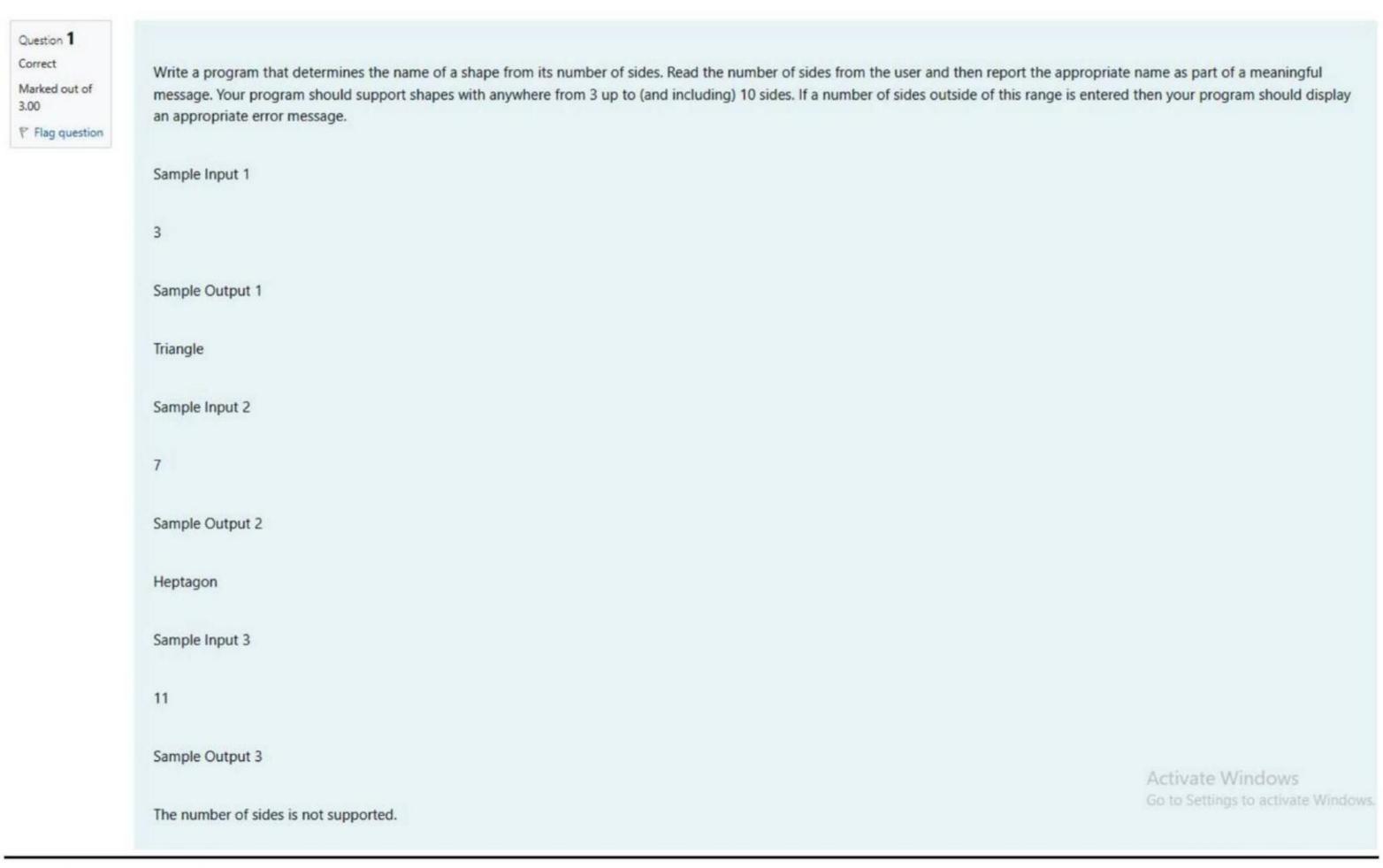
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Week-03-Decision Making and Branching - if, if...else and nested if...else, if...else if and switch...case

Week-03-02-Practice Session-Coding



Source code

Answer: (penalty regime: 0 %)

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

Year	Animal
2000	Dragon
2001	Snake
2002	Horse
2003	Sheep
2004	Monkey
2005	Rooster
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>
 3 + int main(){
        int year;
 4
        scanf("%d", &year);
 6
 8
 9
        if(year%12==8){
            printf("Dragon");
10
11
        else if(year%12==9){
12 +
            printf("Snake");
13
14
        else if(year%12==10){
15 *
            printf("Horse");
16
17
18 +
        else if(year%12==11){
            printf("Sheep");
19
20
        else if(year%12==0){
21 *
            printf("Monkey");
22
23
        else if(year%12==1){
24 +
            printf("Rooster");
25
26
        else if(year%12==2){
27 +
            printf("Dog");
28
29
        else if(year%12==3){
30 +
            printf("Pig");
31
32
33 *
        else if(year%12==4){
            printf("Rat");
34
35
        else if(year%12==5){
36 +
            printf("0x");
37
38
        else if(year%12==6){
39 +
            printf("Tiger");
40
41
42 +
        else if(year%12==7){
            printf("Hare");
43
44
        else{
45 *
46
            return 0;
47
48
```

Result

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

Question 3

Correct

Marked out of 7.00

P Flag question



Source code

```
Answer: (penalty regime: 0 %)
       #include<stdio.h>
    2
    3 * int main(){
           int row, cn;
    4
           char col;
    6
           scanf("%c %d", &col, &row);
           cn=(col-'a')+1;
    9
  10
           if((row+cn)%2==0){
  11 +
               printf("The square is black.");
  12
  13
           else{
  14 *
               printf("The square is white.");
  15
  16
  17
           return 0;
  18
  19
```

Result

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