Answers for Debugging Exercises: Chapter 4

Find the Output

1.

```
years = 200

if(years == 100):

        print( "Century")

elif(years == 75):

        print ("Platinum Jublee")

elif(years == 50):

        print ("Half Century")

elif(years == 25):

        print ("Silver Jublee")

elif(years == 10):

        print ("Decade")

else:

        print ("Nothing")
```

Ans. Nothing

2. num = 100

```
   if num > 30:
       print("30")
   if num<50:
       print("50")
   if num==7:
       print("70")
```
Ans. 30

3.

```
    if x == 50:

        print("Yeah")

    else:

        print("Try Again")
```

Ans. Try Again

4.

```
num = 100
if (num + 1) > 100:
    if (num * 2) >= 200:
        print( "You win")
    else:
        print( "Try Again")
```

a. You Win b. Try Again   c. There is no output

Ans. (a)

5.

```
num = 70
if num == 50:
    print( "50")
elif num == 10:
    print( "10")
elif num == 70:
    print( "70")
else:
    print("Number is not 50, 10 or 70")
```

Ans. 70

6.

```
    if(10 == 10) and (10+20>30):
            print("Done")
    else:
        print("Do It")
```

Ans. Do It

7. >>>not 10>70

Ans. True

8.

```
if not True:
        print("10")
elif not(10+10 == 30):
        print("20")
else:
        print("30")
```

Ans. 20

9.

```
If 10 + 30 == 60:
        print("Best")
else:
        print("Worst")
```

Ans. Worst

10.

```
a = 10

b = 20

if not 10 + 10 == b or a == 40 and 70== 80:

      print ("Yes")

elif a != b:

   print("No")
```

Ans. No

11.

```
i=1

while i<=6:

      print(i, end = " ")

i=i+1

print("Done")
```

Ans.

1   2   3   4   5   6

Done

12.

```
i=0
while i<10:
  i = i + 1
  if(i == 5):
    print( "\n Continue")
    continue
  if(i==7):
    print("\n Breaking")
    break
  print( i, end = " ")
print( "\n Done")
```

Ans.

```
1 2 3 4
Continue
6
Breaking
Done
```

13.

```
for i in range(5):
      print("hello!", end =  " ")
```

OUTPUT

```
hello!     hello!     hello!     hello!     hello!
```

14.

```
for i in range(10):
      if not i%2==0:
            print(i+1)
```

Ans. Print all the even numbers between 2 and 10

Find the Error

1. Indentation error
2. Brackets missing in the while statement
3. No colons in the for statement
4. i is not initialized and no brackets in while statement
5. No brackets in while and semicolon is not allowed in while
6. No error