Conditional and looping constructs

1. Find the output of the following   (2X5=10)
   a. a=110
      while a>100:
         print(a)
         a-=2

   b. for I in range (20,30,2)
         print(i)

   c. country="INDIA"
      for i in country:
         print(i)

   d. i=0
      sum=0
      while i<9:
         if i%4==0:
                  sum=sum+i
         i=i+2

   e. for x in range(1,4):
         for y in range(2,5):
               if x*y>10:
                     break
            print(x*y)
2. Write a python program to print the multiplication table of a number
   read from user.   (2)
3. Write a python program to find the grade of a student.   (3)

Marks	Grade
Above 90	A
80 to 90	B
70 to 80	C
60 to 70	D
Below 60	E

4. Find out the errors from the code and re write the code then underline
   the corrected places.   (2)

```
a=8
a=a+2
if(a=8)
      print("value of a is eight')
else:
print("the value of a is not eight")
```

5. Predict the output   (2x2=4)

   a. for I in range (10,6,-2):
      print(i*2)

   b. for x in range (10,20):
       if (x%2==0):
             continue
       print(x)

6. Write a python program to accept three numbers and print largest of the three. Make use of if, else and elif   (3)
7. Write a program to print 1 to 1000 using for loop   (2)
8. Write a python program to check whether the number is perfect or not.(Hint: a number is said to be perfect number, if the square of the number is the number itself.   (2)
9. Print the pattern using for loop.   (2)

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```