

Program No :-

Date:- 17.1.21

Aim:- python program to find square of a number.

program code :-

```
digit = int (input ("Enter a integer no:"))
square = digit * digit
print (f "square of {digit} is {square}")
```

Result:-

The program has been executed and the output was verified.

Output:-

Enter an integer no: 5

Square of 5 is 25

Program No:- 2

Date :- 17.1.21

Aim:- Python program to find area of a circle.

Program code:-

```
def findArea(r):
```

```
    pi = 3.142
```

```
    return pi * (r * r);
```

```
num = float (input ("Enter the r value:"))
```

```
print ("Area is %0.6f" % findArea(num));
```

Result:-

The program has been executed and the output was verified.

Output:-

Enter the r value: 5.000000000000000

Area is 78.550000

program No: 3

Aim:- python program to find the biggest of three numbers.

program code :-

```
num1 = float(input("Enter first number:"))
```

```
num2 = float(input("Enter second number:"))
```

```
num3 = float(input("Enter third number:"))
```

```
if (num1 > num2) and (num1 > num3):
```

```
    largest = num1
```

```
elif (num2 > num1) and (num2 > num3):
```

```
    largest = num2
```

```
else:
```

```
    largest = num3
```

```
print("The largest number is," largest)
```

Result:-

The program has been executed and the output was verified.

Output:-

Enter first number : 10

Enter second number : 20

Enter third number : 30

The largest number is 30

Date:- 27.1.21

program No:-4

Aim:- python program to find the square of n numbers.

program Code:-

```
list1 = [2, 9, 15, 20, 12]
```

```
for n in list1:
```

```
    square = n ** 2
```

```
    print(n, 'squared is', square)
```

Result:-

The program has been executed and the output was verified.

Output :-

2 squared is 4

9 squared is 81

15 squared is 225

20 squared is 400

10 squared is 100

(square & square) base (square & square)

square & square

(square & square) base (square & square) 300

square & square

square & square

(square & square) base (square & square) 300

square & square base (square & square) 300

Program:-5

Aim:- python program to form a list of vowels selected from a given word.

Program code:-

```
string = "python programming"
print("Given string:\n", string)
```

```
vowels = "AaEeIiOoUu"
```

```
yes = set ([each for each in string if each in vowels])
print("The vowels present in the string:\n", yes)
```

Result:-

The program has been executed and the output was verified.

Output:-

Given string:

python programming

The vowels present in the string:

{ 'o', 'i', 'a' }

programs No :- 6

Aim:- python program to accept the radius from the user and find area of a circle.

-GPN

program code:-

```
From math import pi
```

```
r=float(input("Enter radius of circle:"))
```

```
print("Area of circle is:" + str(pi*r**2))
```

Result:-

The program has been executed and the output was verified.

Output:-

Enter radius of circle: 5

Area of the circle is : 78.5398

program No:-7

Aim:- python program to accept an integer n and compute $n+n+n+n$.

program code:-

```
i=int(input("Enter an integer number:"))
```

```
num=i+((i*10)+i)+(i*100)+((i*10)+i)
```

```
print(num)
```

Result:-

The program has been executed and the output was verified.

Output:-

Enter an integer number: 4

492

(Counting number of digits in input number)

(Getting last digit of input number)

Digit at tens place is 4
Digit at ones place is 2

Date:- 27.1.21

program No:- 8

Aim:- python programs to sort dictionary in ascending and descending order.

Program code:-

```
y = {'carrot': 40, 'apple': 2, 'banana': 1, 'doll': 3}
```

```
l = list(y.items())
```

```
l.sort()
```

```
print('Ascending order is', l)
```

```
list(y.items())
```

```
l.sort(reverse=True)
```

```
print('Descending order is', l)
```

Result:-

The program has been executed and the output was verified.

Output:-

Ascending order is: $\{ \{ \text{apple}, 2 \}, \{ \text{banana}, 1 \}, \{ \text{carrot}, 40 \}, \{ \text{doll}, 3 \} \}$

Descending order is: $\{ \{ \text{doll}, 3 \}, \{ \text{Carrot}, 40 \}, \{ \{ \text{banana}, 1 \}, \{ \text{apple}, 2 \} \}$

program No:-9

Aim: python program to merge two dictionaries.

Program Code :-

```
def merge (dict1, dict2):  
    return (dict2.update(dict1))
```

```
dict1 = {'apple': 10, 'banana': 8}
```

```
dict2 = {'orange': 4, 'grape': 6}
```

```
print (merge(dict1, dict2))
```

```
print (dict2)
```

Result:-

The program has been executed and the output was verified.

Output:-

None
{'orange': 4, 'grape': 6, 'apple': 10, 'banana': 8}

Date: 23.1.21

Program No:- 10

Aim:- Python program to find the gcd of 2 numbers.

Program code:-

```
import math  
print (math.gcd (40, 25))
```

Result:-

The program has been executed and the output was verified.

Output:-

5

Program No:- 11

Aim:- Python program to store a list names, count the occurrences of 'a' within the list.

Program code :-

```
Alist = ["a", "b", "a", "c", "a"]
```

```
ele = 'a'
```

```
print("Given list:\n", Alist)
```

```
print("Given Element :\n", ele)
```

```
cnt = Alist.count('a')
```

```
print("No. of times the element is present in list\n:", cnt)
```

Result :-

The program has been executed and the output was verified.

Output:-

Given list:

[a, b, a, c, a]

Given element:

a

No. of times the element is present in list:

3

program No:-10

aim:- python program to count the occurrences of each word in a line of text.

program code:-

```
def word_count(s):
    counts = dict()
    words = s.split()
    for word in words:
        if word in counts:
            counts[word] += 1
        else:
            counts[word] = 1
    return counts
```

```
print(word_count("Donot watch the clock,do what it
does keep going"))
```

Result:-

The program has been executed and the output was verified.

Output:-

```
{'donot': 1, 'watch': 1, 'the': 1, 'clock': 1, 'DO': 1,  
'what': 1, 'it': 1, 'does': 1, 'keep': 1, 'going': 1}
```

[1, 1, 1, 1, 1, 1]

(1, 1, 1, 1, 1, 1)

(1, 1, 1, 1, 1, 1)

(1, 1, 1, 1, 1, 1)

(1, 1, 1, 1, 1, 1)

problem with bad buttons and bad memory
button

program No:- 13

Aim:- python program to create a string from given string where first and last character exchanged.

program code :-

```
def change_string(str1):  
    return str1[-1:] + str1[1:-1] + str1[:1]  
  
print(change_string('abcd'))
```

Result:-

The program has been executed and the output was verified.

Outlines

dbca

Program No:- 14

Aim:- Python program to get a string from a input string where all occurrences of the first character replaced with '\$', except first character.

Program code :-

```
def change_char(str1):
    char = str1[0]
    str1 = str1.replace(char, '$')
    str1 = char + str1[1:]
    return str1

print(change_char('restart'))
```

Result:-

The program has been executed and the output was verified.

1. To find output

Output:-

restart

for i = 1 to 100 do
 for j = 1 to 100 do
 for k = 1 to 100 do
 print i, j, k

: (100) points , square

[1.111111111111111 : 1.111111111111111 : 1.111111111111111]

: (1000) points , square

for i = 1 to 100 do
 for j = 1 to 100 do
 for k = 1 to 100 do
 print i, j, k

Program No:- 15

Aim:- python program to find the factorial of a number.

Program Code:-

```
number = int(input("please enter any number to find factorial :"))
```

```
Fact = 1
```

```
i = 1
```

```
while (i <= number):
```

```
    fact = fact * i
```

```
    i = i + 1
```

```
print("The factorial of  ${}! = {}$ ".format(number, fact))
```

Result:-

The program has been executed and the output was verified.

Output:-

Please enter any number to find factorial : 5

The factorial of $5 = 120$

Program No:- 16

Aim:- Python program to find a fibonacci series.

Program Code:-

```
n=int(input("Enter the value of 'n':"))
a=0
b=1
sum=0
count=1
print("Fibonacci series:",end="")
while(count<=n):
    print(sum,end=" ")
    count+=1
    a=b
    b=sum
    sum=a+b
```

Result:-

The program has been executed and the output was verified.

Output:-

Enter the value of 'n': 5

Fibonacci series: 0 1 1 2 3

introduction to computer programming (in) for beginners
(in) python

12.07.2017

: (random :- i) else

introduction to

it is

continuation of "below - below to tomorrow with () min"

class of two lectures and one assignment at
bitmim 2017

Date:- 3.2.21

Program No.: 17

Aim:- python program to find the sum of all items in a list.

Program Code:-

total = 0

list1 = [12, 8, 32, 15, 9]

for ele in range(0, len(list1)):
 total = total + list1[ele]

print ("sum of all elements in given list:", total)

Result:-

The program has been executed and the output was verified.

Output:-

Sum of all elements in given list : 76

Date:- 3.2.21

Program No:- 18

Aim:- Python program to construct a star pyramid.

Program code:

```
def star():
    rows=5
    for i in range(rows):
        for j in range(i):
            print ("*", end="")
        print (" ")
    for i in range(rows, 0, -1):
        for j in range(i):
            print ("*", end="")
        print (" ")
    star()
```

Result:-

The program has been executed and the output was verified.

Output:-

*
* *
* * *
* * * *
* * * * *

1st row
for random numbers

Row 1

Row 2

2nd row
for random numbers

3rd row
for random numbers

4th row
for random numbers

5th row
for random numbers

(*) marks

for random numbers

Row 6

With the help of this random choice and arrangement of
at least 100

program No:-19

aim: python program to generate all factors of a number.

program code:-

```
number = int(input("please enter any number:"))
```

```
value = 1
```

```
print("Factors of a given number {} are:".format
      (number))
```

```
while (value <= number):
```

```
    if (number % value == 0):
```

```
        print("{} ".format(value))
```

```
    value = value + 1
```

Result:-

The program has been executed and the output was verified.

Output:-

1. (i) (ə:uəʊ) spən ə i və
2. (i) (ə:uəʊ) spən ə i və
3. (i) (ə:uəʊ) spən ə i və
4. (i) (ə:uəʊ) spən ə i və

5. (i) (ə:uəʊ) spən ə i və
6. (i) (ə:uəʊ) spən ə i və

7. (i) (ə:uəʊ) spən ə i və
8. (i) (ə:uəʊ) spən ə i və

9. (i) (ə:uəʊ) spən ə i və
10. (i) (ə:uəʊ) spən ə i və

11. (i) (ə:uəʊ) spən ə i və
12. (i) (ə:uəʊ) spən ə i və

13. (i) (ə:uəʊ) spən ə i və
14. (i) (ə:uəʊ) spən ə i və

15. (i) (ə:uəʊ) spən ə i və
16. (i) (ə:uəʊ) spən ə i və

17. (i) (ə:uəʊ) spən ə i və
18. (i) (ə:uəʊ) spən ə i və

19. (i) (ə:uəʊ) spən ə i və
20. (i) (ə:uəʊ) spən ə i və

21. (i) (ə:uəʊ) spən ə i və
22. (i) (ə:uəʊ) spən ə i və

23. (i) (ə:uəʊ) spən ə i və
24. (i) (ə:uəʊ) spən ə i və

25. (i) (ə:uəʊ) spən ə i və
26. (i) (ə:uəʊ) spən ə i və

27. (i) (ə:uəʊ) spən ə i və
28. (i) (ə:uəʊ) spən ə i və

29. (i) (ə:uəʊ) spən ə i və
30. (i) (ə:uəʊ) spən ə i və

31. (i) (ə:uəʊ) spən ə i və
32. (i) (ə:uəʊ) spən ə i və

33. (i) (ə:uəʊ) spən ə i və
34. (i) (ə:uəʊ) spən ə i və

35. (i) (ə:uəʊ) spən ə i və
36. (i) (ə:uəʊ) spən ə i və

37. (i) (ə:uəʊ) spən ə i və
38. (i) (ə:uəʊ) spən ə i və

39. (i) (ə:uəʊ) spən ə i və
40. (i) (ə:uəʊ) spən ə i və

41. (i) (ə:uəʊ) spən ə i və
42. (i) (ə:uəʊ) spən ə i və

Date: 3. 2. 21

program No:- 20

siml-pyton program to write lambda functions to find area of square, rectangle and triangle.

program code:-

```
s_area = lambda width, height: width * height
print ("Area of square (8,5) is:", s_area (8,5))

r_area = lambda length, height: length * height
print ("Area of rectangle (10,20) is:", r_area (10,20))

t_area = lambda a,b,c: a*b*c
print ("Area of triangle (2,4,6) is:", t_area (2,4,6))
```

Result:-

The program has been executed and the output was verified.

Output:

Area of square (8,5) is : 40

Area of rectangle (10,20) is: 200

Area of triangle (2,4,6) is: 48

(Answer)

(Answer is correct)

(Area of rectangle is)

(Area of triangle is)

1 + 2 + 3 = 6.00000

It has been done good and correctly
but it is not