VIVEK KUMAR | D2 | 20233317 | WEEK 5

```
print("enter the numbers for their code OR enter 0 to exit")
num = 1
proDigit = 1
while(True and num!=0):
  num = int(input("enter the number"))
  if(num==0):
    break;
  # to claculate the product of the digits
  temp = num
  prodigit = 1
  while(temp!=0):
    proDigit = proDigit*(temp%10)
    temp = int(temp/10)

  print(num," = ",proDigit)
```

```
enter the numbers for their code OR enter 0 to exit
enter the number12
12  =  2
enter the number0
```

```
#ques2
num=int(input("enter the number less than 98"))

if(num<98):
  for i in range(num+1):
    if(i%5!=0):
      print(i)
```

```
enter the number less than 9834
1
2
3
4
6
7
8
9
11
12
13
14
16
17
18
19
21
22
23
24
26
27
28
29
31
32
33
34
```

```
#ques3
str = input("enter the sring \n")
c=0
for i in str:
  if i in ['a','e','i','o','u']:
    c=c+1

print(c)
```

```
enter the sring
vkdkmr
0
```

```
#ques4
def getSum(n):

    sum = 0
    while (n != 0):

        sum = sum + (n % 10)
        n = n//10

    return sum

n = int(input("enter the  number \n"))
print(getSum(n))
```

```
 enter the  number
 34
 7
```

```
#ques5
num = int(input("enter the number between 1 to 100 \n"))
if(num<=100 and num>=1):


    for i in range(2, int(num/2)+1):

        if (num % i) == 0:
            print(num, "is not a prime number")
            break
    else:
        print(num, "is a ques of jack")
else:
    print(num, "is not a ques of jack")
```

```
 enter the number between 1 to 100
 56
 56 is not a prime number
```

```
#ques6
# Python program for simple calculator

# Function to add two numbers
def add(num1, num2):
    return num1 + num2

# Function to subtract two numbers
def subtract(num1, num2):
    return num1 - num2

# Function to multiply two numbers
def multiply(num1, num2):
    return num1 * num2

# Function to divide two numbers
def divide(num1, num2):
    return num1 / num2

print("Please select operation -\n" \
        "1. Add\n" \
        "2. Subtract\n" \
        "3. Multiply\n" \
        "4. Divide\n")


# Take input from the user
select = int(input("Select operations form 1, 2, 3, 4 :"))

number_1 = int(input("Enter first number: "))
number_2 = int(input("Enter second number: "))

if select == 1:
    print(number_1, "+", number_2, "=",
                    add(number_1, number_2))

elif select == 2:
    print(number_1, "-", number_2, "=",
                    subtract(number_1, number_2))

elif select == 3:
```

```
        print(number_1, "*", number_2, "=",
                        multiply(number_1, number_2))

    elif select == 4:
        print(number_1, "/", number_2, "=",
                        divide(number_1, number_2))
    else:
        print("Invalid input")
```

```
     Please select operation -
     1. Add
     2. Subtract
     3. Multiply
     4. Divide

     Select operations form 1, 2, 3, 4 :2
     Enter first number: 3
     Enter second number: 4
     3 - 4 = -1
```

```
#ques7
print("enter the ages or 0 to exit")
age = int(input("\n"))
sum = 0
c=0
while(age!=0):
  sum = sum + age
  c=c+1
  print("averag age = ",(sum/c))
  age = int(input("\n"))
```

```
     enter the ages or 0 to exit

     12
     averag age =  12.0

     23
     averag age =  17.5

     45
     averag age =  26.666666666666668

     0
```

```
#ques8
c=65
for i in range(6):
  for j in range(6-i):
    print(" ",end='');
  for k in range(i+1):
    ch = chr(c)
    print(ch," ",end='')
    c=c+1
  print()
```

```
          A
         B  C
        D  E  F
       G  H  I  J
      K  L  M  N  O
     P  Q  R  S  T  U
```

```
#ques9
a = int(input("enter the staring term\n"))
r = int(input("enter the common ratio \n"))
n = int(input("enter the number the terms to be printed\n"))
term = 0
for i in range(n):
  term = a* (r**i)
  print(term)
```

```
     enter the staring term
     5
     enter the common ratio
     6
     enter the number the terms to be printed
     7
```

```
5
30
180
1080
6480
38880
233280
```

```
#ques10
a = int(input("enter the first number\n"))
b = int(input("enter the second number \n"))

import math

# prints 12
gcd = (math.gcd(a,b))

print(a/gcd,"/",b/gcd)
```

```
enter the first number
3
enter the second number
9
1.0 / 3.0
```