

PROGRAMING WITH PYTHON(BCS105)

SUPRIYA B

CL1

Program

INPUT

```
import random
s=0
while(s<=100):
    n=input("press r to roll the dice")
    if(n=='r'):
        r=random.randint(1,6)
        s=s+r
        print("u got",r)
        print("new position is",s)

        if(s==8):
            s=37
            print("i got ladder")
        elif(s==11):
            s=2
            print("sorry, u got snake")
        if(s==13):
            s=34
            print("i got ladder")
        elif(s==25):
            s=4
            print("sorry, u got snake")
        if(s==40):
            s=68
            print("i got ladder")
        elif(s==38):
            s=9
            print("sorry, u got snake")
        if(s==52):
            s=81
            print("i got ladder")
        elif(s==65):
            s=46
            print("sorry, u got snake")
        if(s==76):
            s=97
            print("i got ladder")
        elif(s==93):
            s=64
            print("sorry, u got snake")
        if(s==100):
            print("u won")
            exit()
        elif(s>=100):
            print("stay in same place")
            s=s-r
```

OUTPUT

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press r to roll the dicer
u got 4
new position is 4
press r to roll the dicer
u got 3
new position is 7
press r to roll the dicer
u got 2
new position is 9
press r to roll the dicer
u got 5
new position is 14
press r to roll the dicer
u got 4
new position is 18
press r to roll the dicer
u got 1
new position is 19
press r to roll the dicer
u got 2
new position is 21
press r to roll the dicer
u got 5
new position is 26
press r to roll the dicer
u got 1
new position is 27
press r to roll the dicer
u got 2
new position is 29
press r to roll the dicerr
press r to roll the dicer
u got 1
new position is 30
press r to roll the dicer
u got 2
new position is 32
press r to roll the dicer
u got 4
new position is 36
press r to roll the dicer
u got 2
new position is 38
sorry, u got snake
press r to roll the dicer
u got 6
new position is 15
press r to roll the dicer
u got 3
new position is 18
press r to roll the dicer
u got 1

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new position is 19
press r to roll the dicer
u got 3
new position is 22
press r to roll the dicer
u got 4
new position is 26
press r to roll the dicer
u got 2
new position is 28
press r to roll the dicer
u got 1
new position is 29
press r to roll the dicer
u got 6
new position is 35
press r to roll the dicer
u got 4
new position is 39
press r to roll the dicer
u got 3
new position is 42
press r to roll the dicer
u got 6
new position is 48
press r to roll the dicer
u got 5
new position is 53
press r to roll the dicer
u got 4
new position is 57
press r to roll the dicer
u got 1
new position is 58
press r to roll the dicer
u got 2
new position is 60
press r to roll the dicer
u got 5
new position is 65
sorry, u got snake
press r to roll the dicer
u got 1
new position is 47
press r to roll the dicer
u got 5
new position is 52
i got ladder
press r to roll the dicer
u got 1
new position is 82
press r to roll the dicer

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```
u got 1
new position is 83
press r to roll the dicer
u got 5
new position is 88
press r to roll the dicer
u got 3
new position is 91
press r to roll the dicer
u got 5
new position is 96
press r to roll the dicer
u got 4
new position is 100
u won
cl114@soetcse:~/supriya$
```

PROGRAM 2

INPUT

```
i=1
while i<=10:
    print (i)
    i=i+1
```

OUTPUT

```
1
2
3
4
5
6
7
8
9
10
c
```

```
a=int(input("enter a number"))
b=int(input("enter a number"))
```

#definig adition

```
def add():
    print("addition of two numbers is:",a+b)
    return
```

#definig subtraction

```
def sub():
    print("subtraction of two numbers is:",a-b)
    return
```

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PROGRAM 3

```
INPUT
#definig multiplication
def multiply():
    print("multiplication of two numbers is",a*b)
    return
#definig division
def divide():
    print("division of two numbers is", a/b)
    return
#calling all functions
add()
sub()
multiply()
divide()
```

OUTPUT

```
enter a number2
enter a number3
addition of two numbers is: 5
subtraction of two numbers is: -1
multiplication of two numbers is 6
division of two numbers is 0.6666666666666666
```

PROGRAM 4:

```
#functions
a=10
b=5
#defining addition
def add():
    return a+b
#defining subtraction
def sub():
    print("subtraction=",a-b)
    return
#defining multiplication
def multiply():
    print("multiplication=",a*b)
    return
#defining division
def division():
    print("division=",a/b)
```

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```
return
```

```
#calling add() function  
r=add()  
print("addition=",r)  
#calling sub() function  
sub()  
#calling multiply() function  
multiply()  
#calling dvision() function  
division()
```

OUTPUT:

```
addition= 15  
subtraction= 5  
multiplication= 50  
division= 2.0
```

PROGRAM 5

```
i=4  
j=0  
while(j<=10):  
    print(i*j)  
    j=j+1
```

OUTPUT:

```
0  
4  
8  
12  
16  
20  
24  
28  
32  
36  
40
```

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PROGRAM 6 :

```
x=int(input("enter a number"))
y=1
while(y<=20):
    print(x*y)
    y=y+1
```

OUTPUT:

```
enter a number5
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
```

PROGRAM 7:

```
#to print odd numbers
i=1
while(i<=10):
    print(i)
    i=i+2
```

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OUTPUT:

1
3
5
7
9

PROGRAM 8:

```
import random
while True:
    i=input("enter 'n' to quit")
    if(i=='n'):
        print("bye!")
        exit()
    else:
        print("you got",random.randint(1,6))
```

OUTPUT:

enter 'n' to quitq
you got 2
enter 'n' to quitn
bye!

PROGRAM 9:

```
import random

while True:
    i=input("enter 'r' to roll the dice")
    if(i=='q'):
        print("bye")
        exit()
    elif(i=='r'):
        print("you rolled a ",random.randint(1,6))
    else:
```


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```
print(" ")
```

```
stay in the game  
you got 4  
new position is 103  
stay in the game  
press r to roll the dicer  
you got 4  
new position is 103  
stay in the game  
press r to roll the dicer  
you got 1  
new position is 100  
you won the game
```