**PROBLEM SOLVING AND PYTHON PROGRAMMING**

**RECORD**

PYTHON PROGRAMMING USING SIMPLE STATEMENTS AND EXPRESSION

**EXERCISE NO:** 3(a)-**PRINT THE DAYS OF WEEK**

**DATE:** 30/12/2022

**PROGRAM**:

num=1

Weekdays= ("Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday")

for i in Weekdays:

print(i,"-",num)

num=num+1

**OUTPUT:**

Sunday - 1

Monday - 2

Tuesday - 3

Wednesday - 4

Thursday - 5

Friday - 6

Saturday - 7

**EXERCISE NO:** 3(b)- **SMALLEST OF THREE NUMBERS**

**DATE**: 30/12/2022

**PROGRAM:**

a= int(input("Enter number1:"))

b= int(input("Enter number2:"))

c= int(input("Enter number3:"))

if(a<b and a<c):

print("a is smallest")

elif(b<a and b<c):

print("b is smallest")

else:

print("c is smallest")

**OUTPUT:**

Enter number1:23

Enter number2:54

Enter number3:42

a is smallest

**EXERCISE NO:** 3(c) – **READ A CHARACTER IF IT IS LOWER PRINT \*\* ELSE PRINT U**

**DATE:** 30/12/2022

**PROGRAM:**

Character= input("Enter a word:")

if(Character.islower()):

print("\*\*")

else:

print("U")

**OUTPUT:**

Enter a word:ritika

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Enter a word:RITIKA

U

**EXERCISE NO:** 3(d) - **ODD/EVEN**

**DATE**: 30/12/2022

**PROGRAM:**

a = int(input("Enter a number:"))

if (a%2==0):

print ("It is an Even number")

else:

print("It is an Odd number")

**OUTPUT**:

Enter a number:54

It is an Even number

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Enter a number:23

It is an Odd number

**EXERCISE NO:** 3(e) – **STUDENT** **GRADE ANALYSIS**

**DATE**: 30/12/2022

**PROGRAM**:

a = int(input("Enter mark 1:"))

b = int(input("Enter mark 2:"))

avg = a+b/2

if avg>90:

print("Grade O")

elif avg>80 and avg<90:

print("Grade A+")

elif avg>70 and avg<80:

print("Grade A")

elif avg>60 and avg<70:

print("Grade B+")

elif avg>50 and avg<60:

print("Grade B")

else:

print("Grade U")

**OUTPUT**:

Enter mark 1:99

Enter mark 2:95

Grade O

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Enter mark 1:89

Enter mark 2:82

Grade A+

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Enter mark 1:75

Enter mark 2:75

Grade A

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Enter mark 1:65

Enter mark 2:65

Grade B+

**EXERCISE NO:** 3(f) – **READ A CHARACTER AND CHECK A GIVEN CHARACTER IS ALPHABET,NUMBER,SPACE**

**DATE**: 30/12/2022

**PROGRAM:**

ch= input("Enter the character:")

if((ch>='a' and ch<='z') or (ch>='A' and ch<='Z')):

print("The given character",ch,"is alphabet")

elif(ch>='0' and ch<='9'):

print("The given character",ch,"is number")

else:

print("The given character",ch,"is space or special symbol")

**OUTPUT:**

Enter the character:r

The given character r is alphabet

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Enter the character:22

The given character 22 is number

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Enter the character:

The given character is space or special symbol