ANSWER 1

"grading system in program in python\n"

"print (\"grading system in program in python\")\n",

"mark = int(input(\"Enter the marks: \"))\n",

"if mark > 90:\n",

" print(\"Your grade is A\")\n",

"elif mark > 80 and mark <= 90:\n",

" print(\"Your grade is B\")\n",

"elif mark >= 60 and mark <= 80:\n",

" print(\"Your grade is C\")\n",

"else:\n",

" print(\"Your grade is D\")"

ANSWER NO 2

# PROGRAM TO ACCEPT THE COST PRICE OF A BIKE AND DISPLAY ROAD TAX TO BE PAID

Tax = 0

price = int(input("Enter the price of the bike: "))

if price > 100000:

Tax = 15/100 \* price

elif price > 50000 and price <= 100000:

Tax = 10/100 \* price

else:

Tax = 5/100 \* price

print ("Tax to be paid: ", Tax)

ANSWER NO 3

city = input ("Enter the name of the city: ")

if city. Lower () == "Delhi":

print ("The famous Red Fort of Delhi is a popular tourist attraction and an important historical monument in the city.")

else:

print ("Sorry, the information about Red Fort is available only for Delhi.")

ANSWER NO 4

number = int(input("enter the name "))

counter =0

while number >10:

number =number /3

counter +=1

print ("the number can be divided by 3", counter ,"times before it is less than or equal to 10.")

ANSWER NO 5

The while loop in Python is used to repeatedly execute a block of code as long as a given condition is true. The basic syntax of a while loop is as follows:

while condition :

# code to be excuted

The code inside the while loop will be executed repeatedly until the condition evaluates to False. If the condition is never met, the loop will run forever, causing an infinite loop.

while True:

number = int(input("Enter a number greater than 10: "))

if number > 10:

break

print("The number you entered is not greater than 10. Please try again.")

print("Thank you for entering a number greater than 10.")

ANSWER NO 6

# Pattern 1: Right Triangle

row = 1

while row <= 5:

column = 1

while column <= row:

print("\*", end="")

column += 1

print()

row += 1

print()

# Pattern 2: Inverted Right Triangle

row = 5

while row >= 1:

column = 1

while column <= row:

print("\*", end="")

column += 1

print()

row -= 1

print()

# Pattern 3: Diamond

row = 1

n = 5

while row <= n:

spaces = 1

while spaces <= n - row:

print(" ", end="")

spaces += 1

stars = 1

while stars <= 2 \* row - 1:

print("\*", end="")

stars += 1

print()

if row == n:

break

row += 1

spaces = 1

while spaces <= row - 1:

print(" ", end="")

spaces += 1

stars = 1

while stars <= 2 \* (n - row) - 1:

print("\*", end="")

stars += 1

print()

ANSWER 7

number = 10

while number >= 1:

print(number)

number -= 1

ANSWER 8

number = 10

while number >= 1:

print(number)

number -= 1S